

FIG. 1A

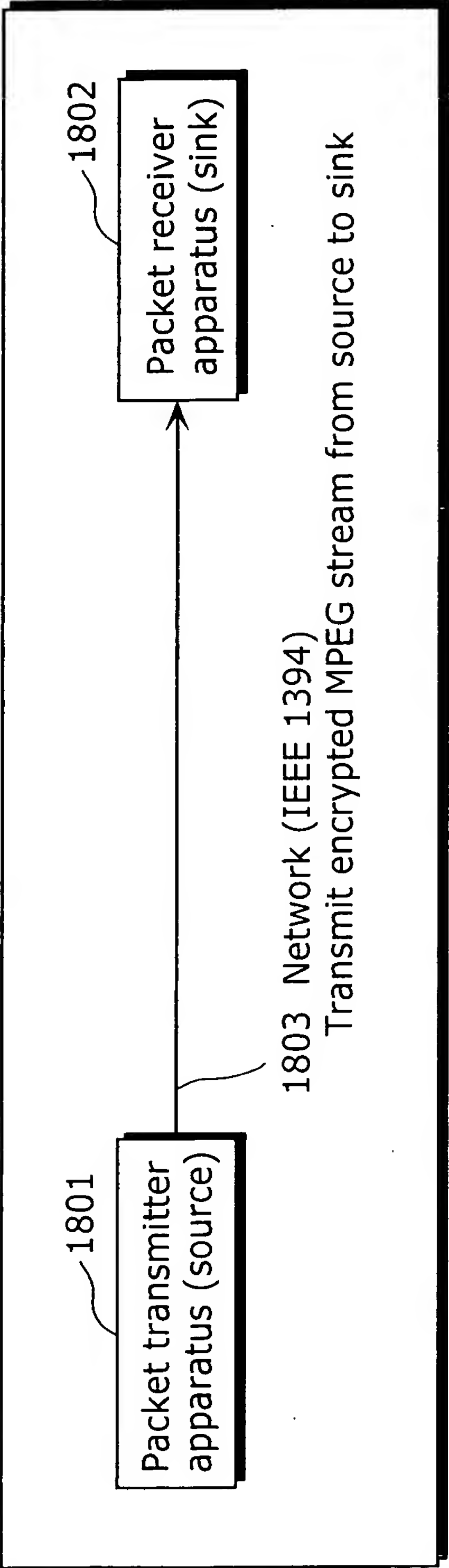


FIG. 1B

Example of transmitter apparatus (source)	Example of receiver apparatus (sink)	Encrypt contents in transmission
DVHS	DVHS	Perform content protection of MPEG-TS using DTCP system
HDD recorder	HDD recorder	
STB mounting 1394	STB mounting 1394	
Digital TV mounting 1394	Digital TV mounting 1394	

FIG. 2

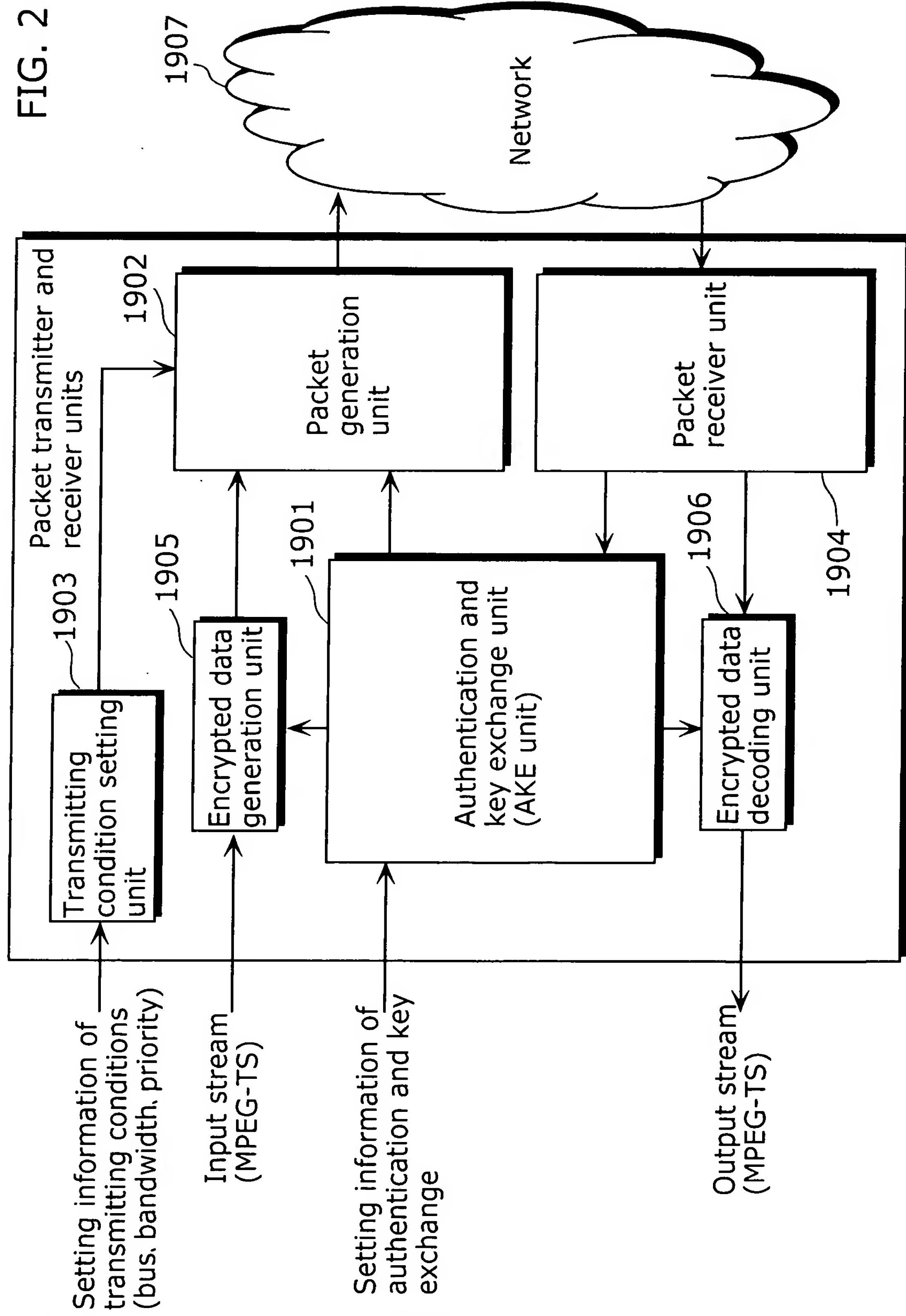


FIG. 3

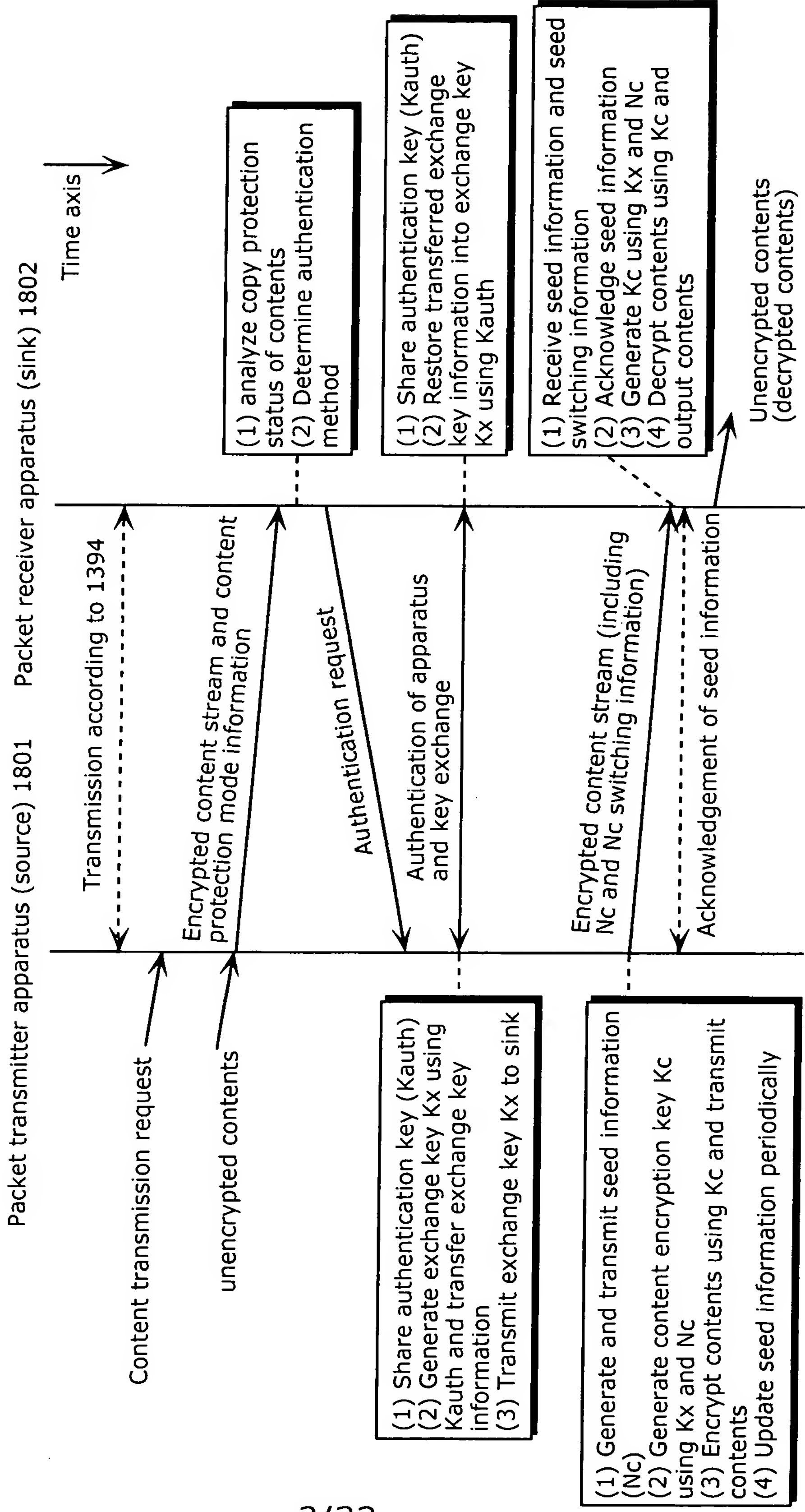


FIG. 4

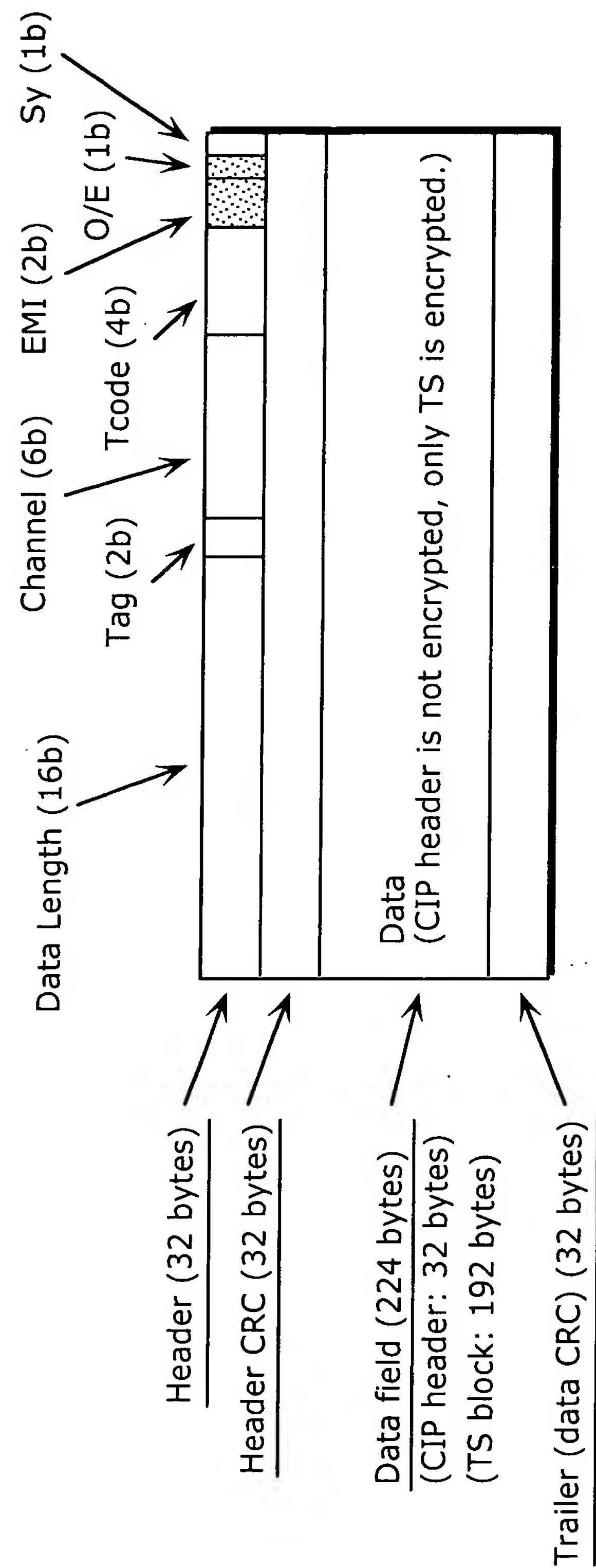


FIG. 5

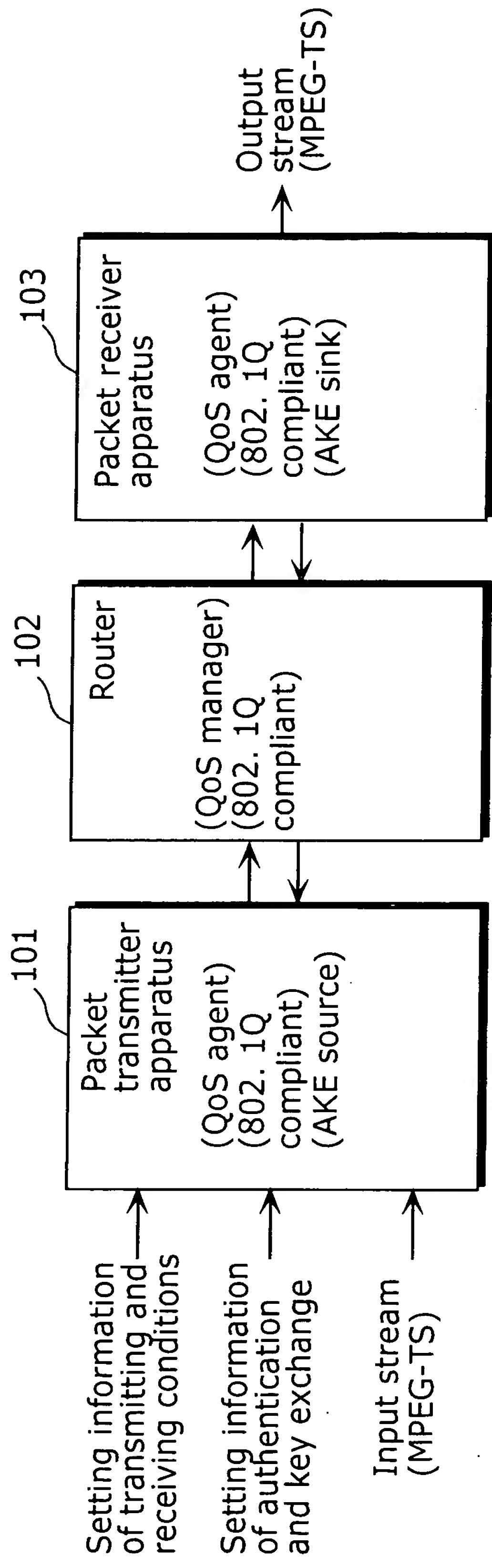


FIG. 6

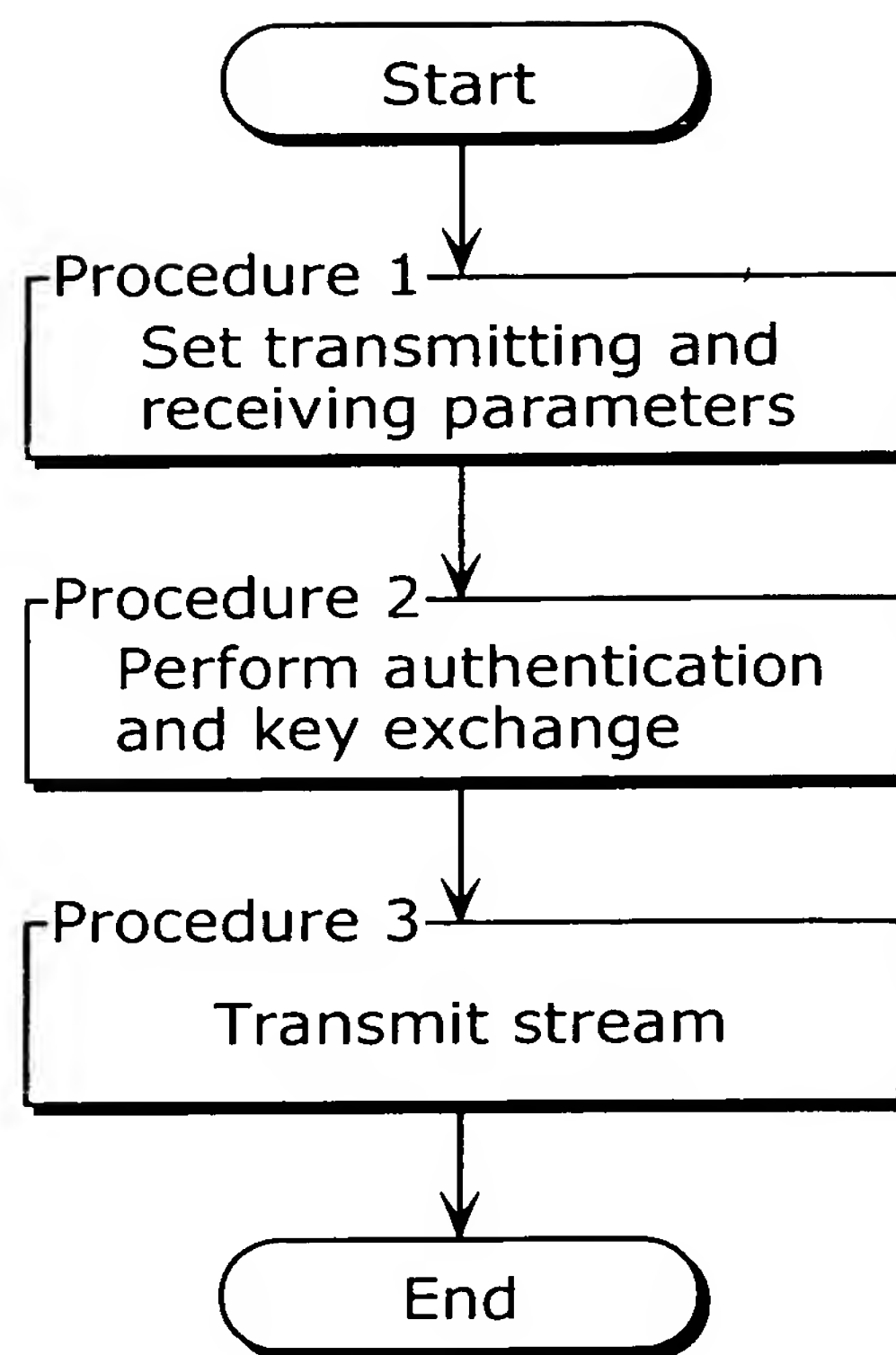
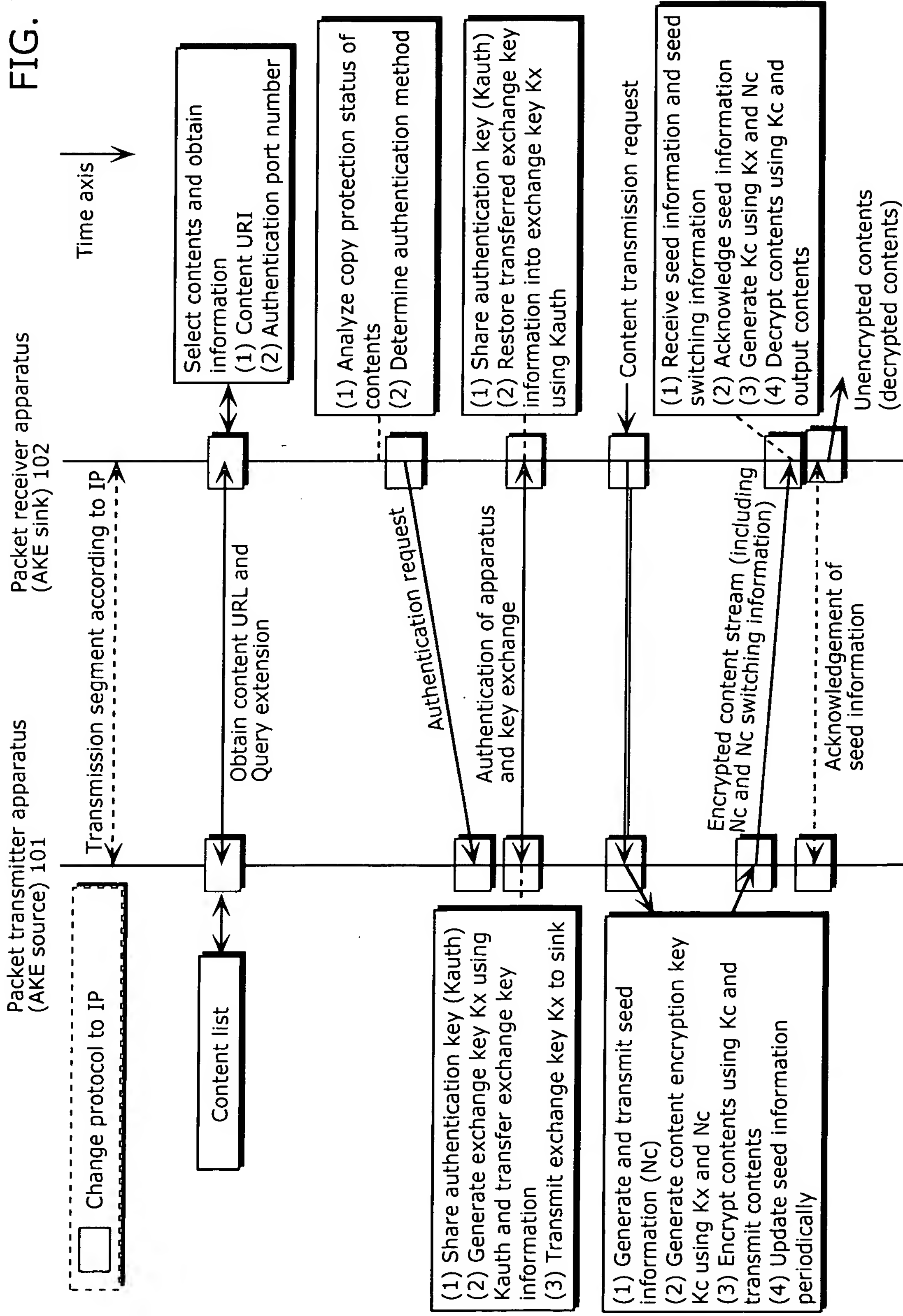


FIG. 7



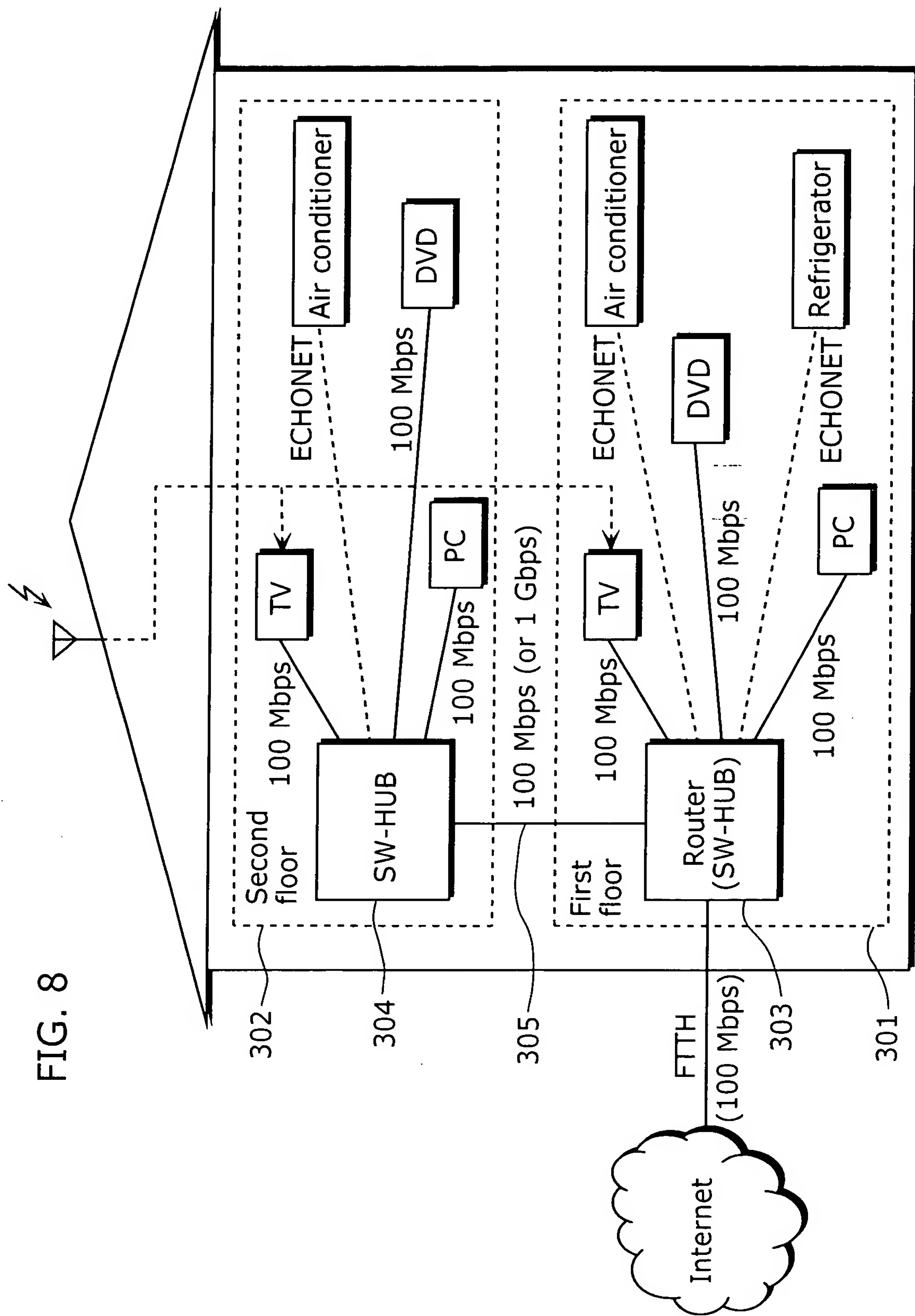


FIG. 8

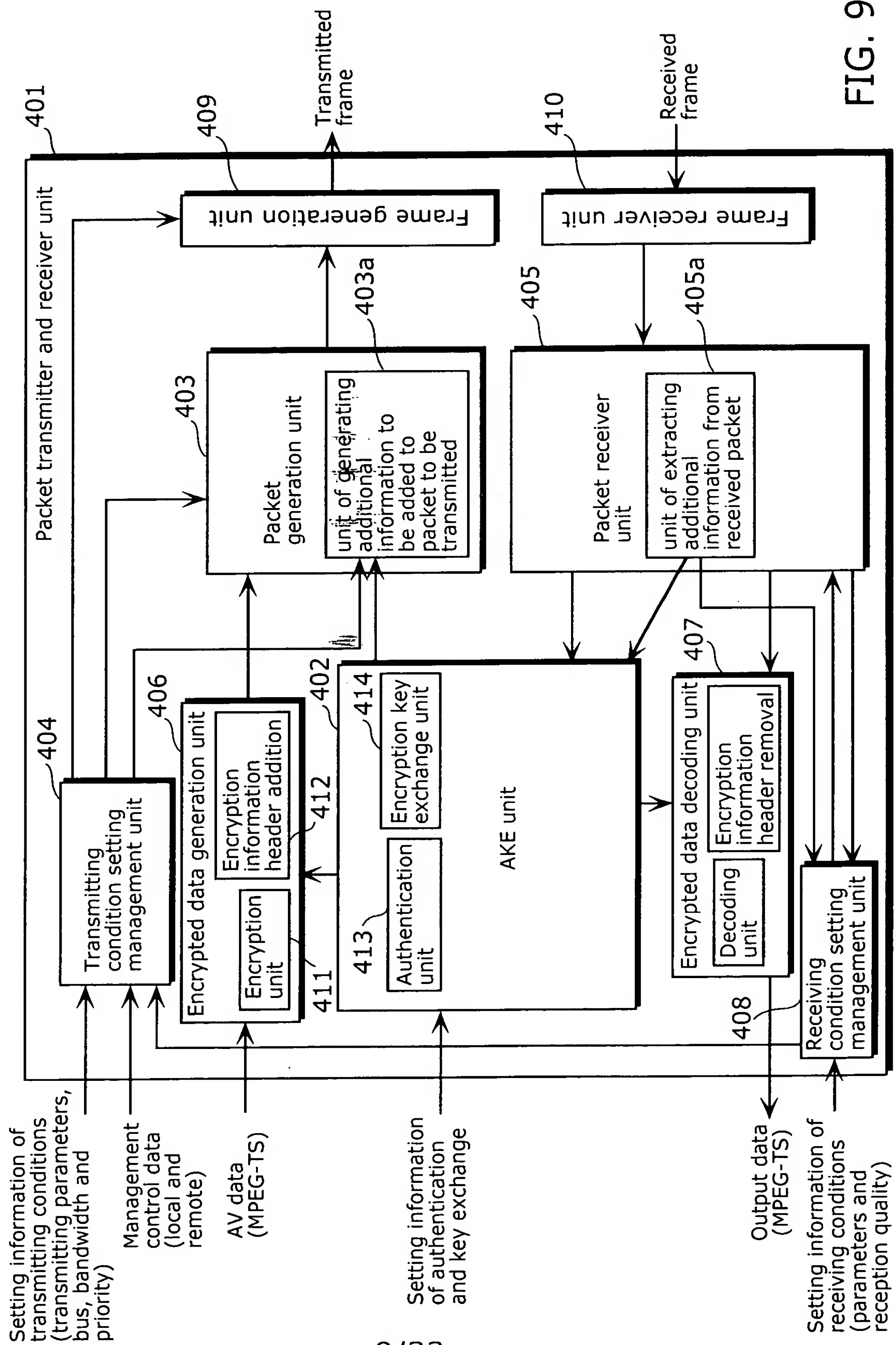
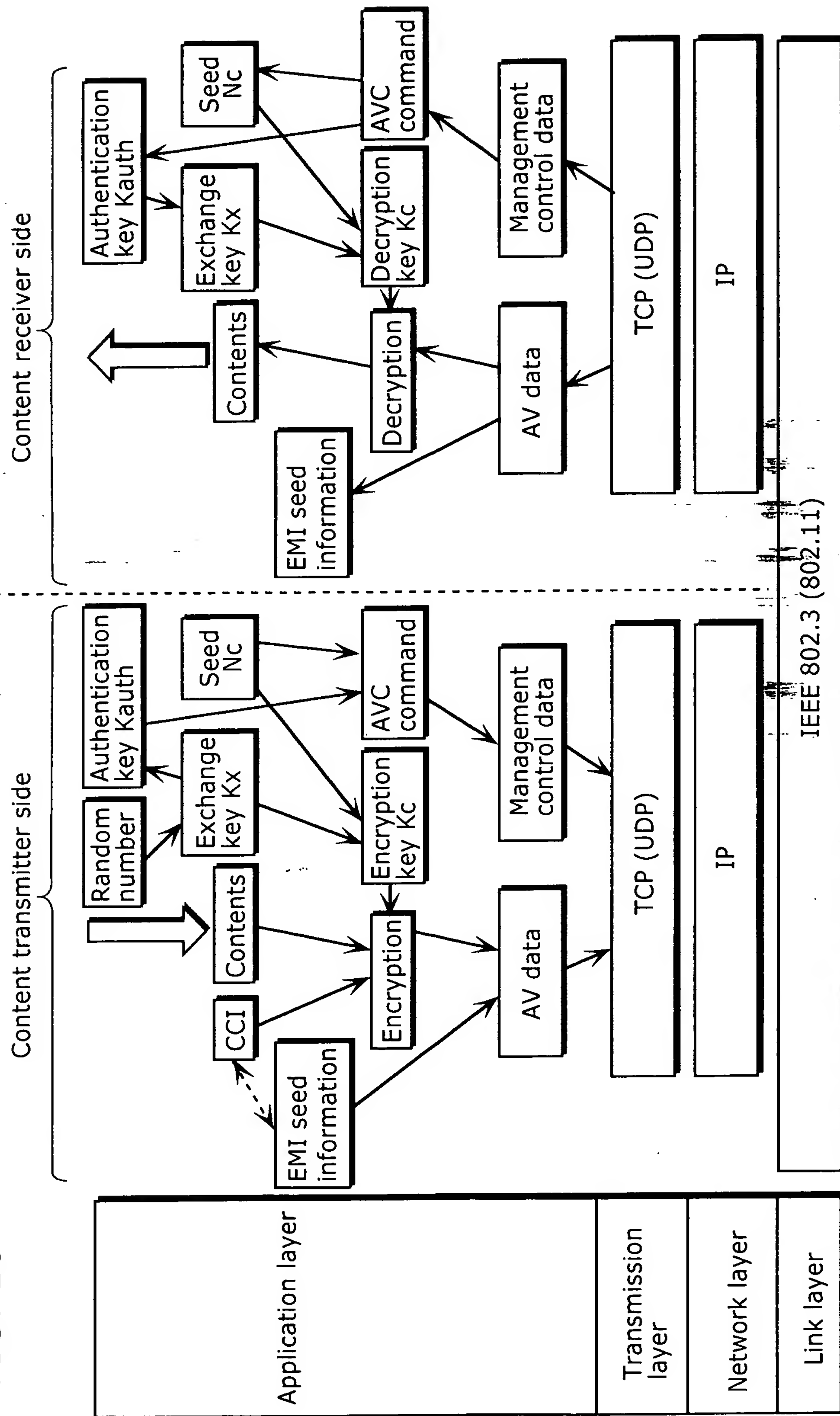


FIG. 9

FIG. 10



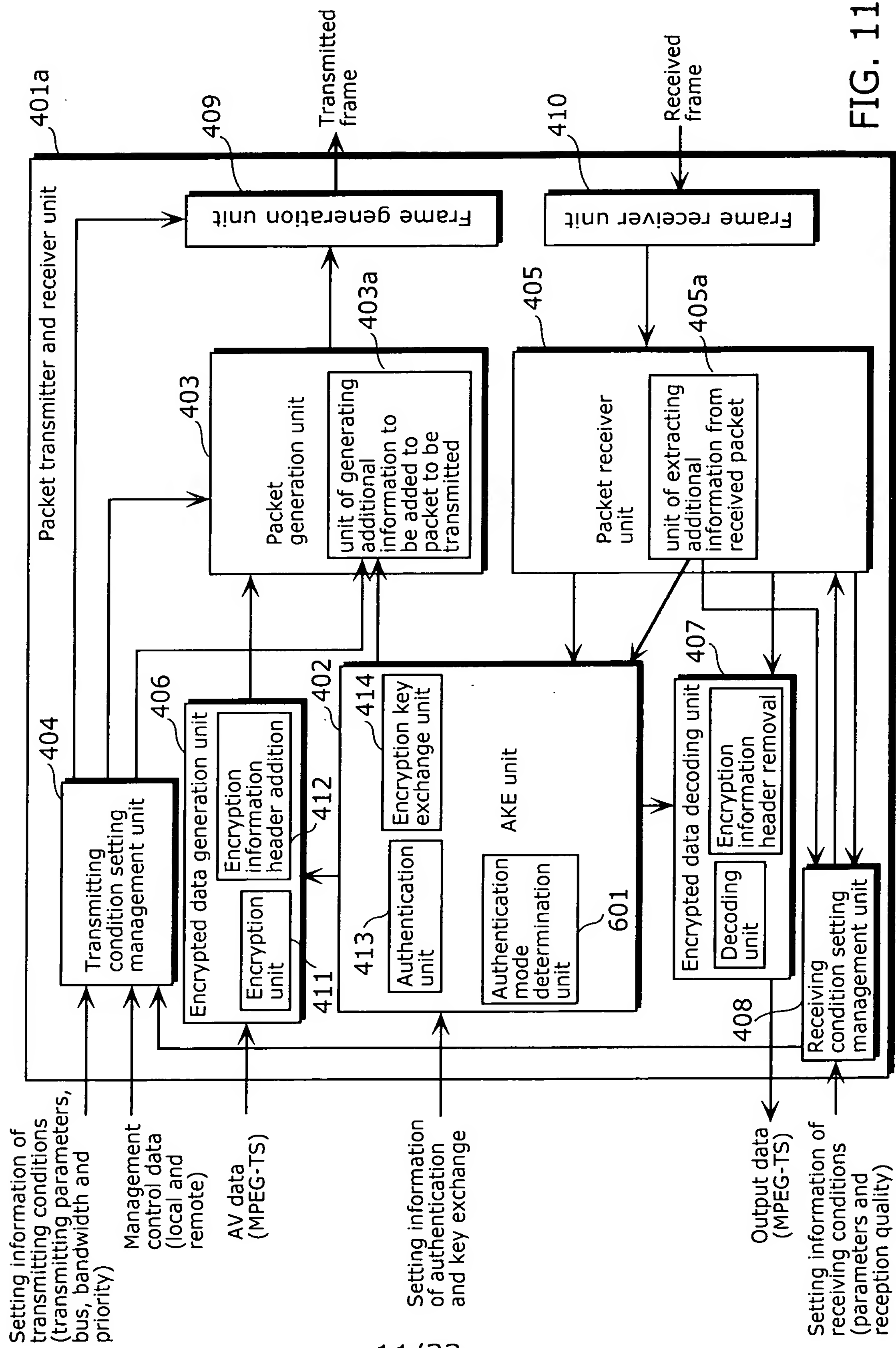


FIG. 11

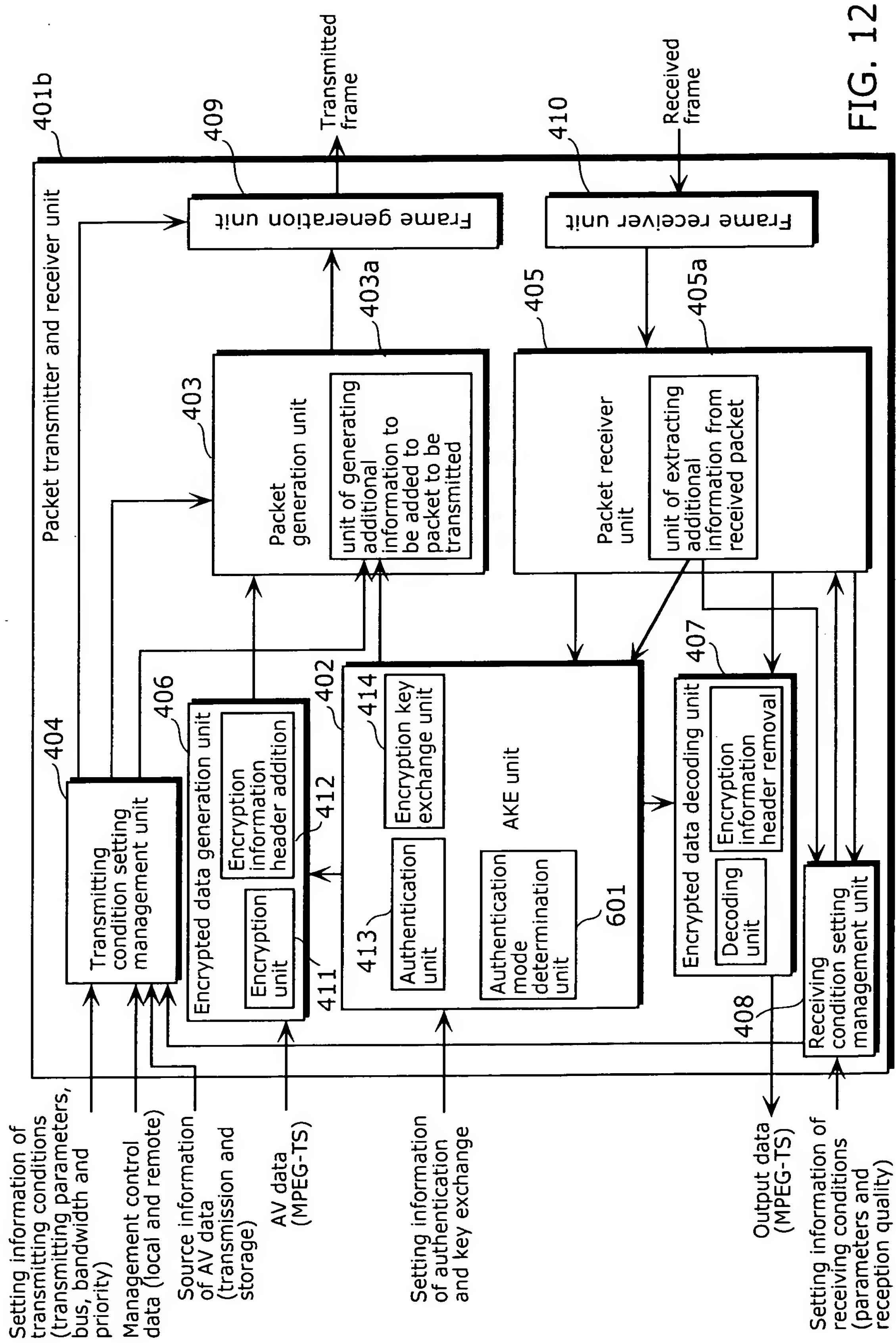


FIG. 12

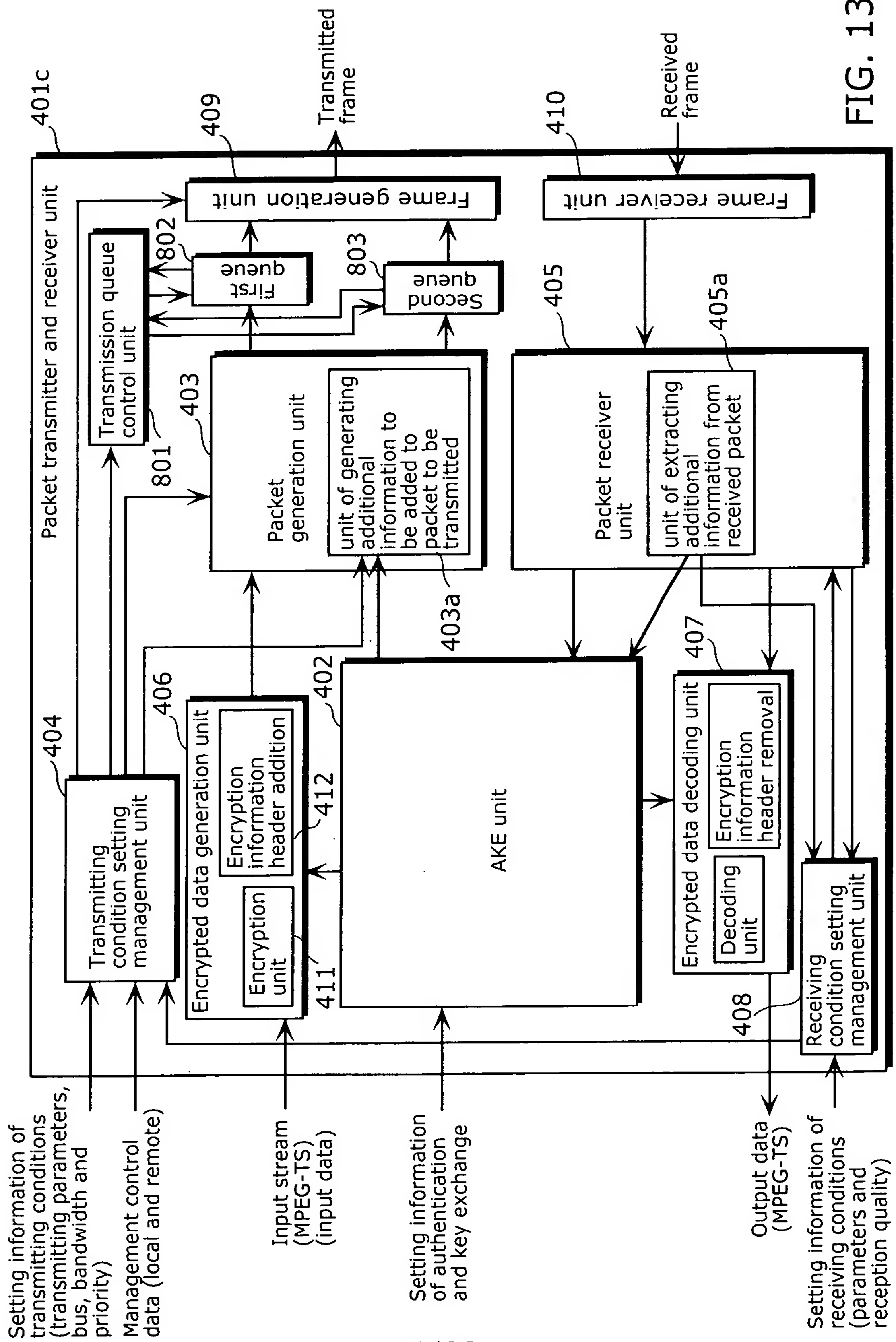


FIG. 13

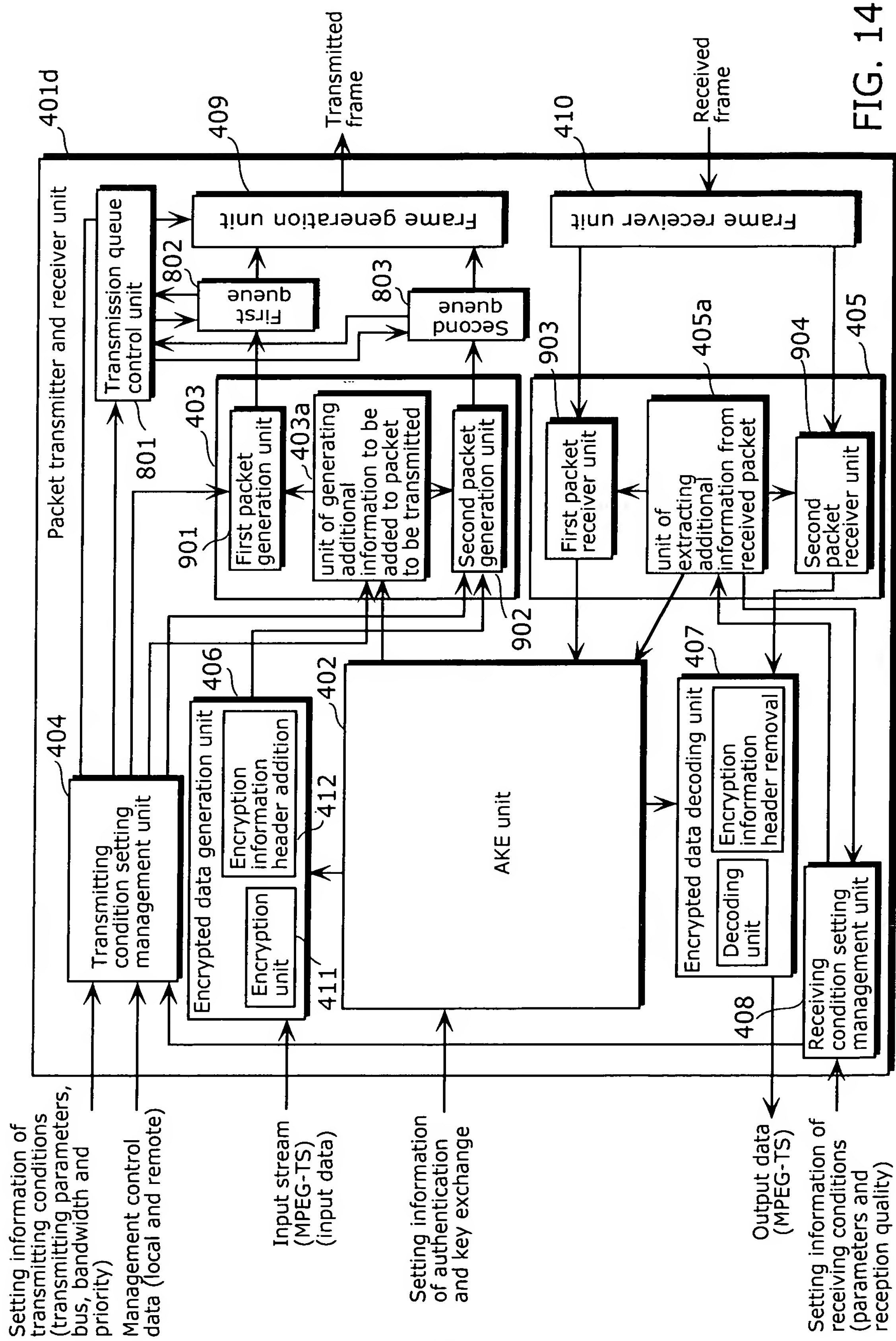


FIG. 14

FIG. 15

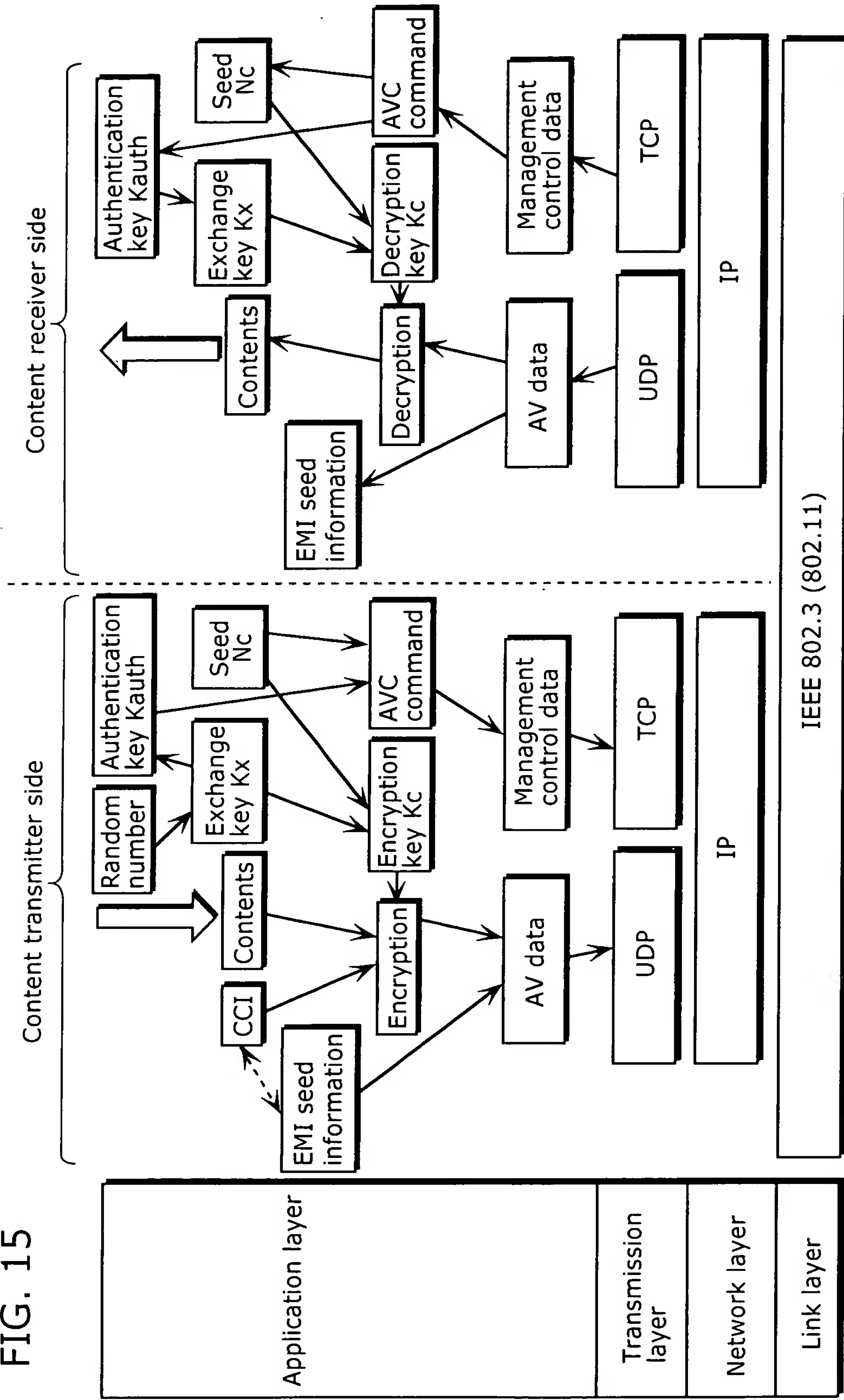
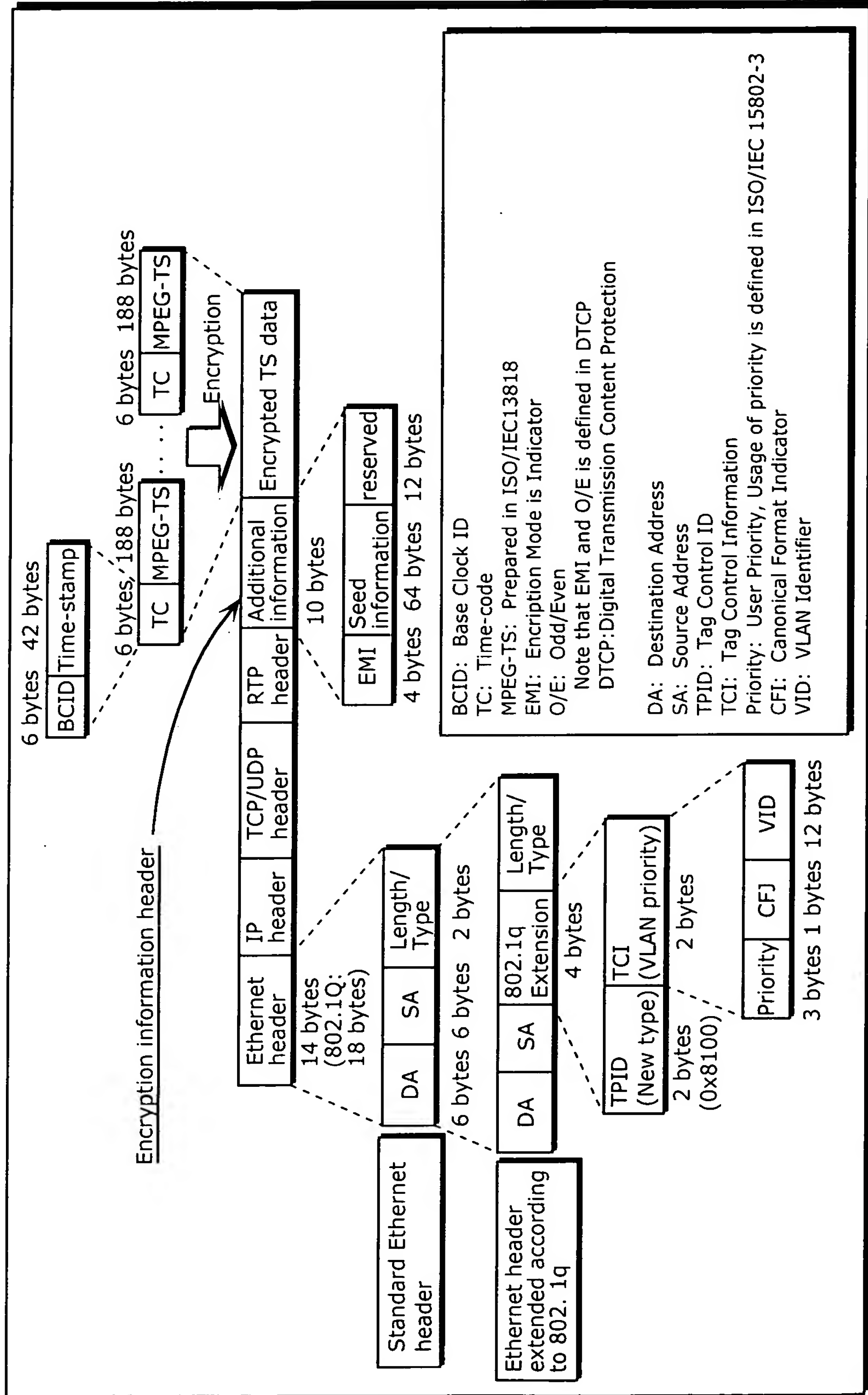


FIG. 16



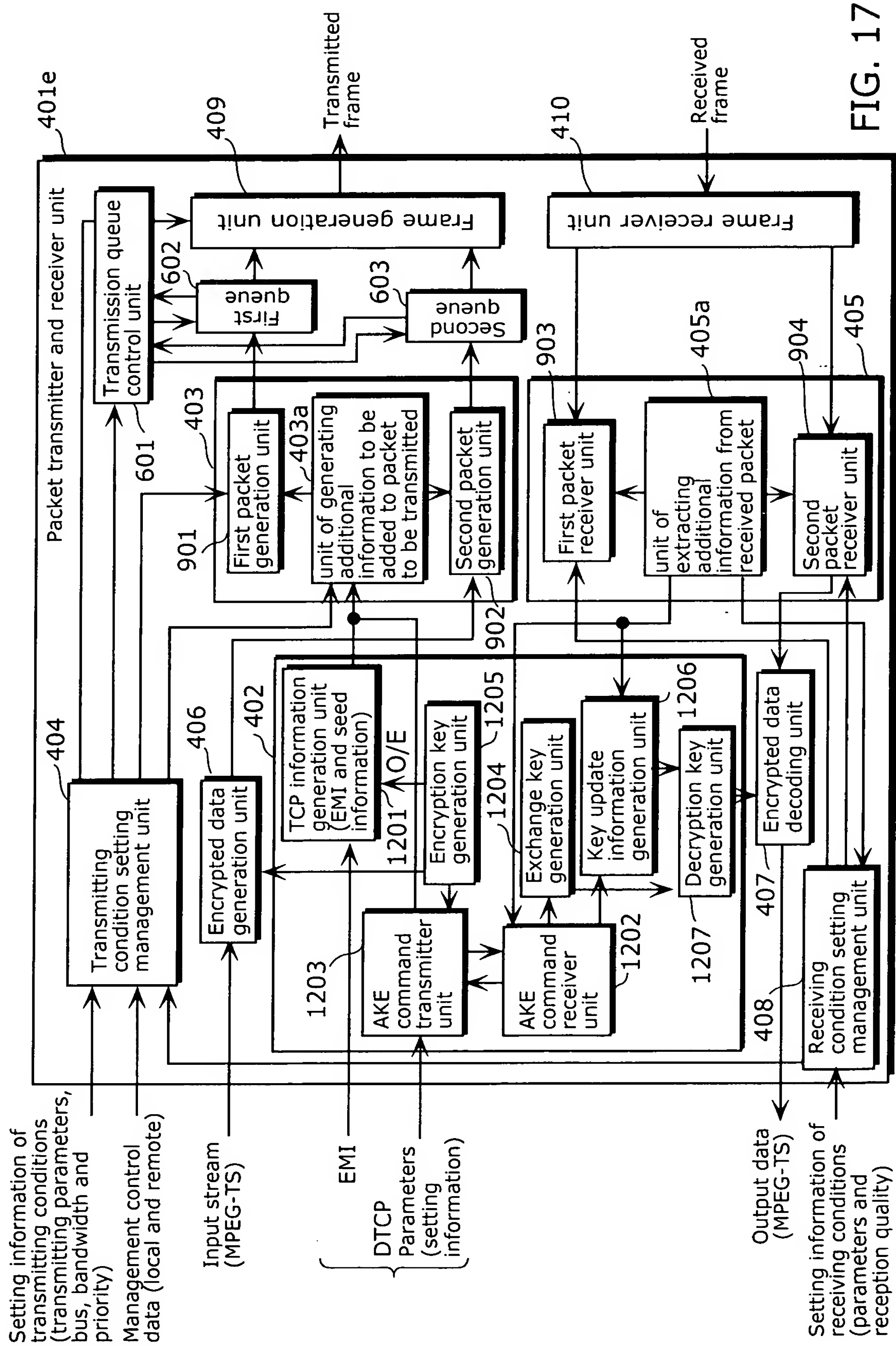


FIG. 17

FIG. 18A

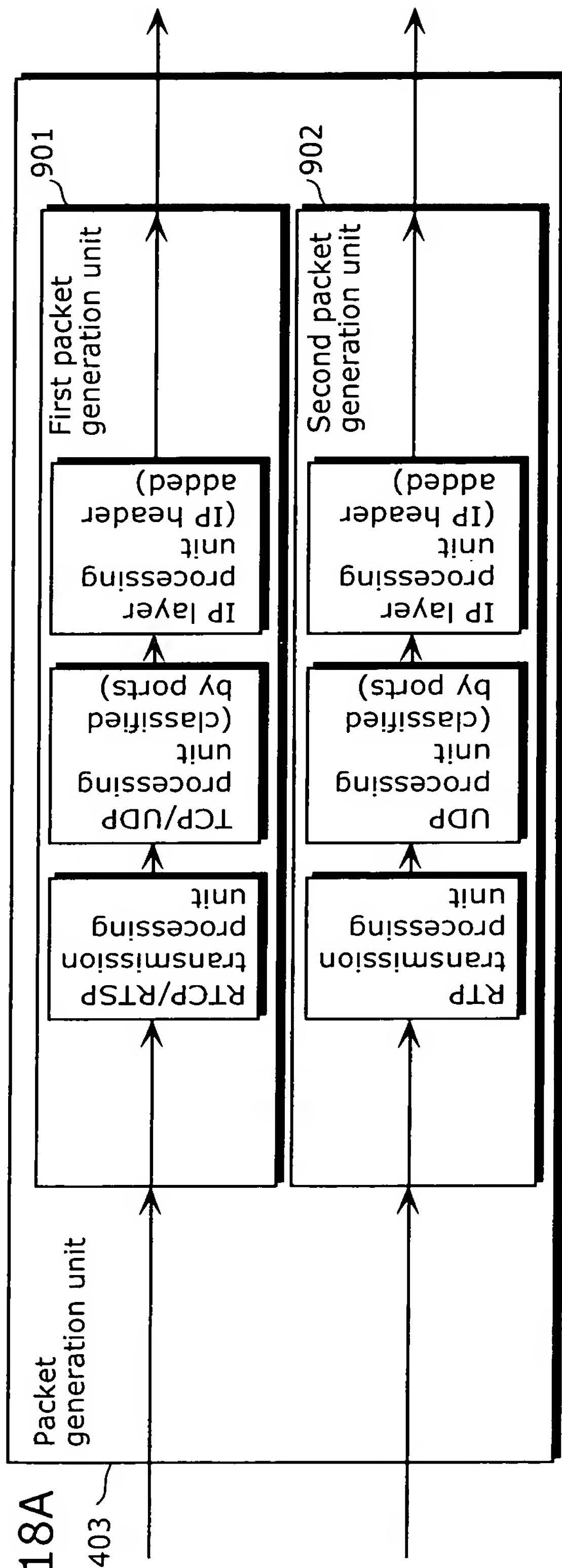


FIG. 18B

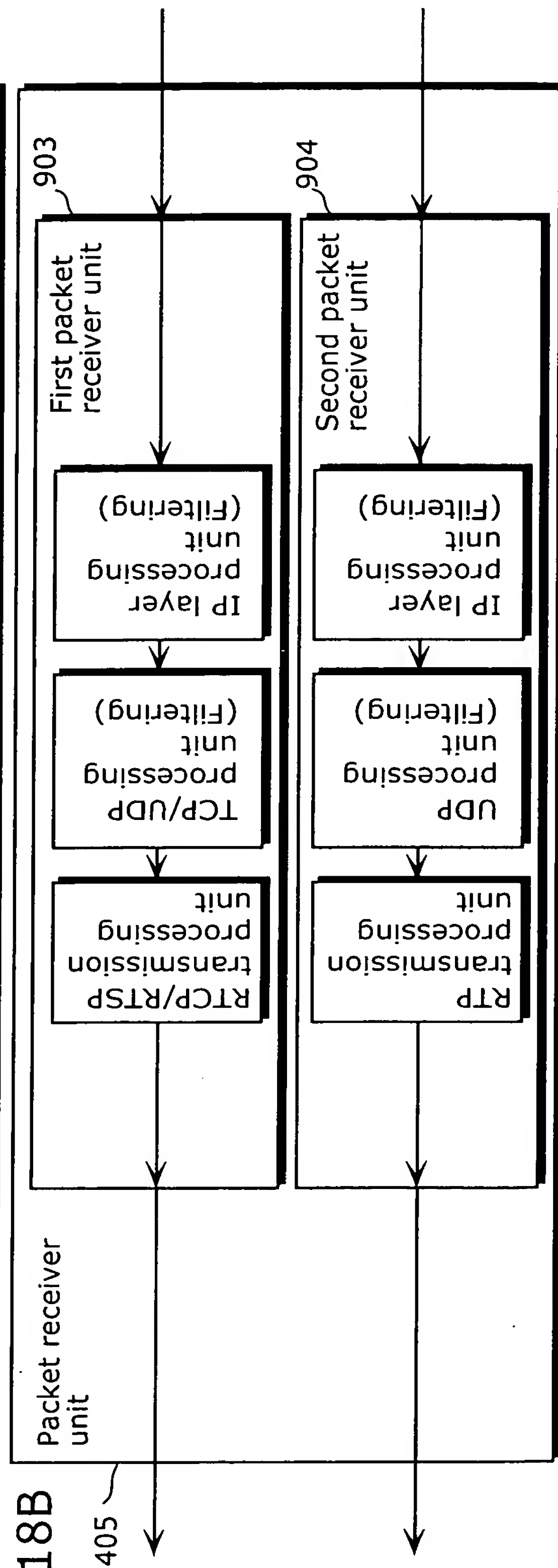
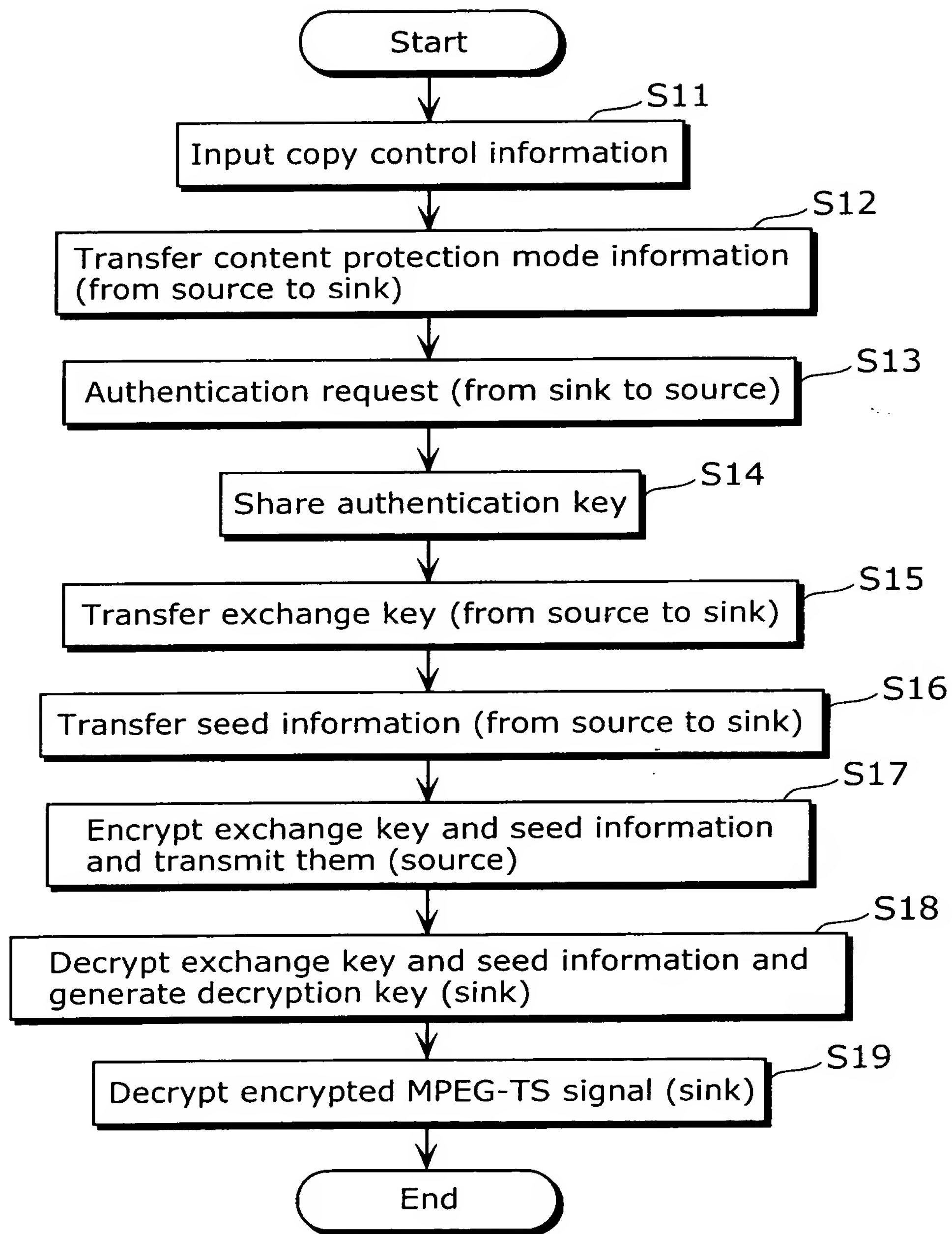


FIG. 19



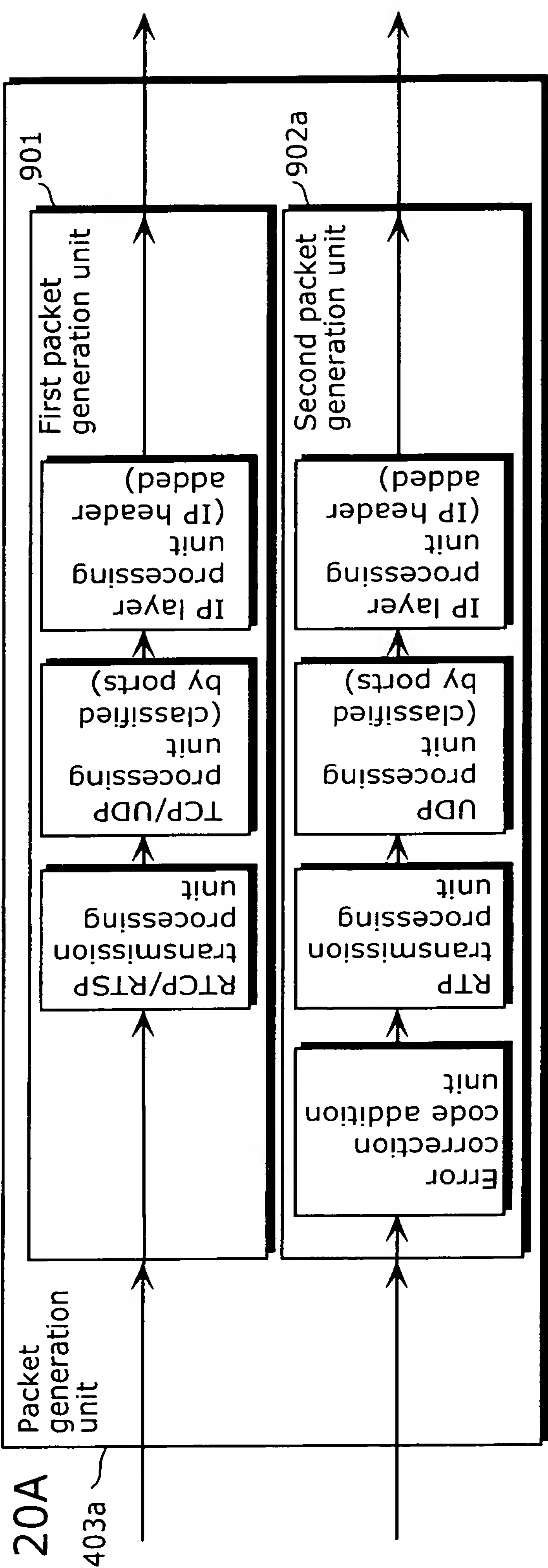


FIG. 20A

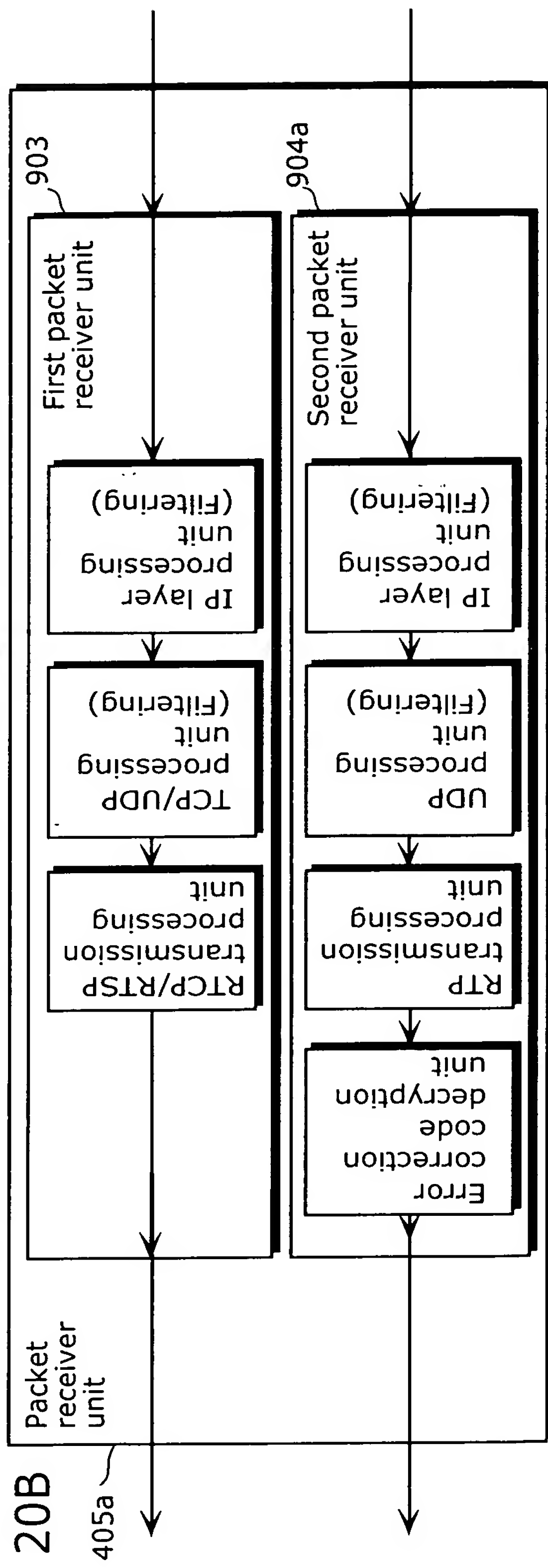


FIG. 20B

FIG. 21

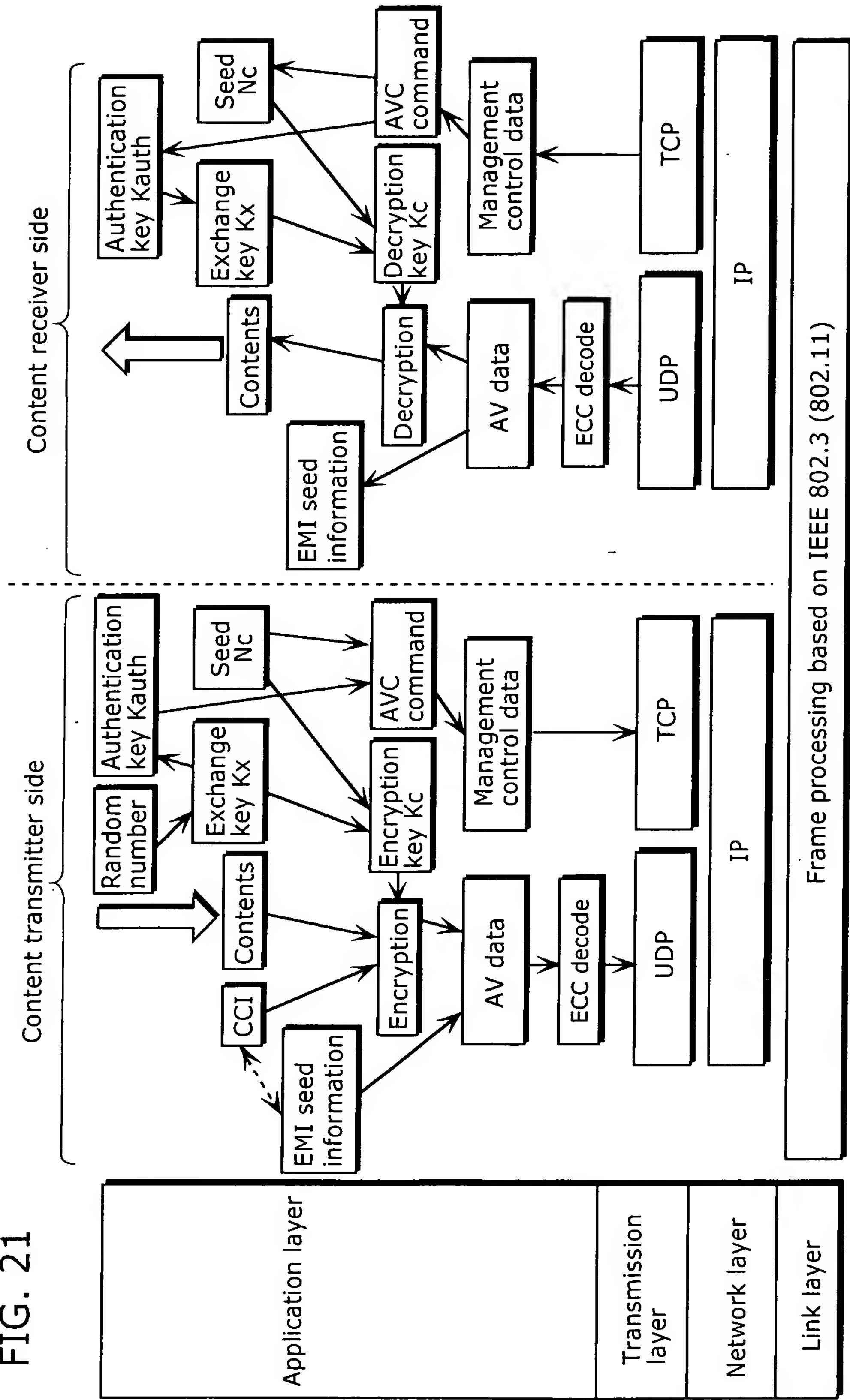


FIG. 22

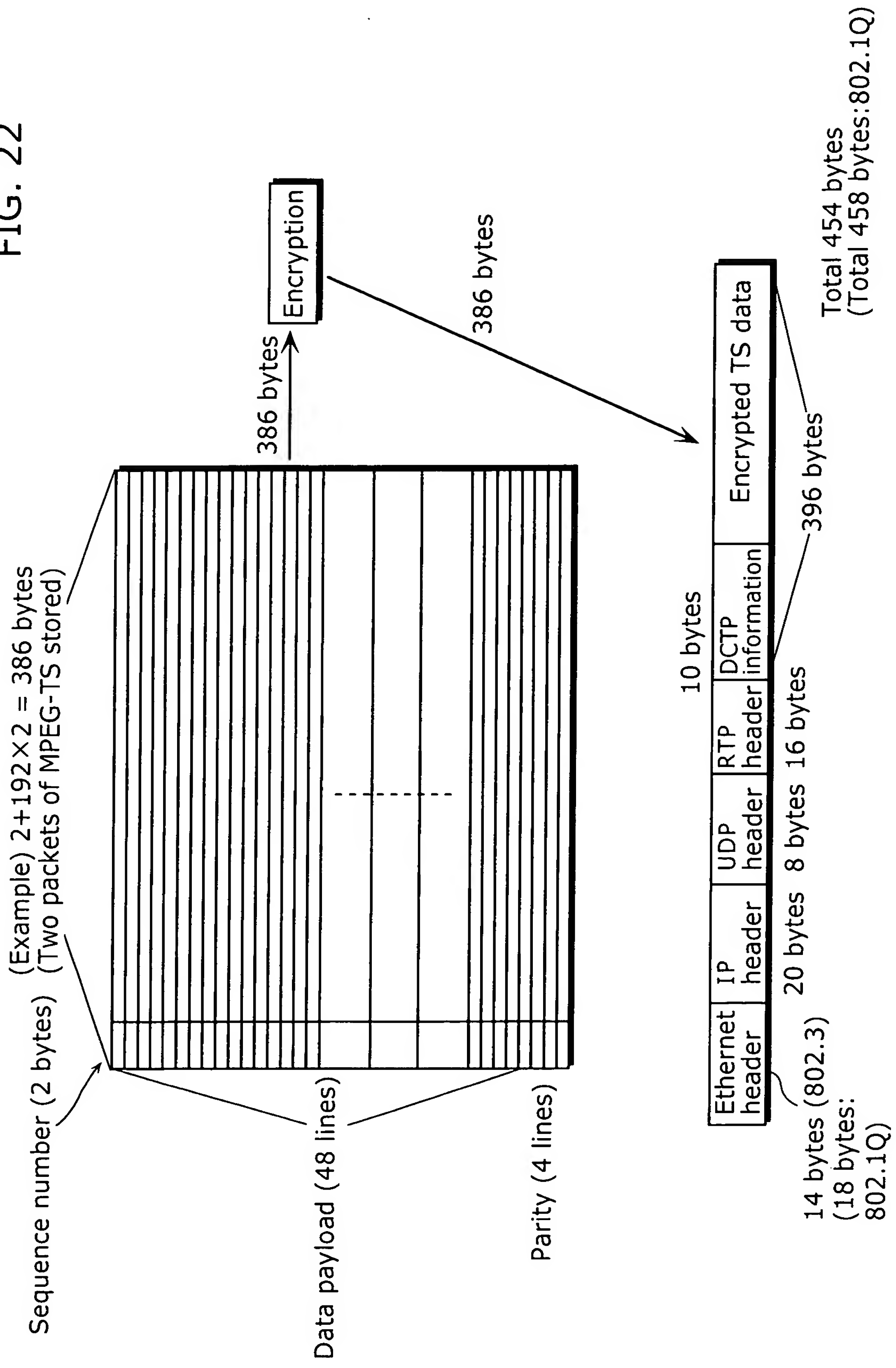
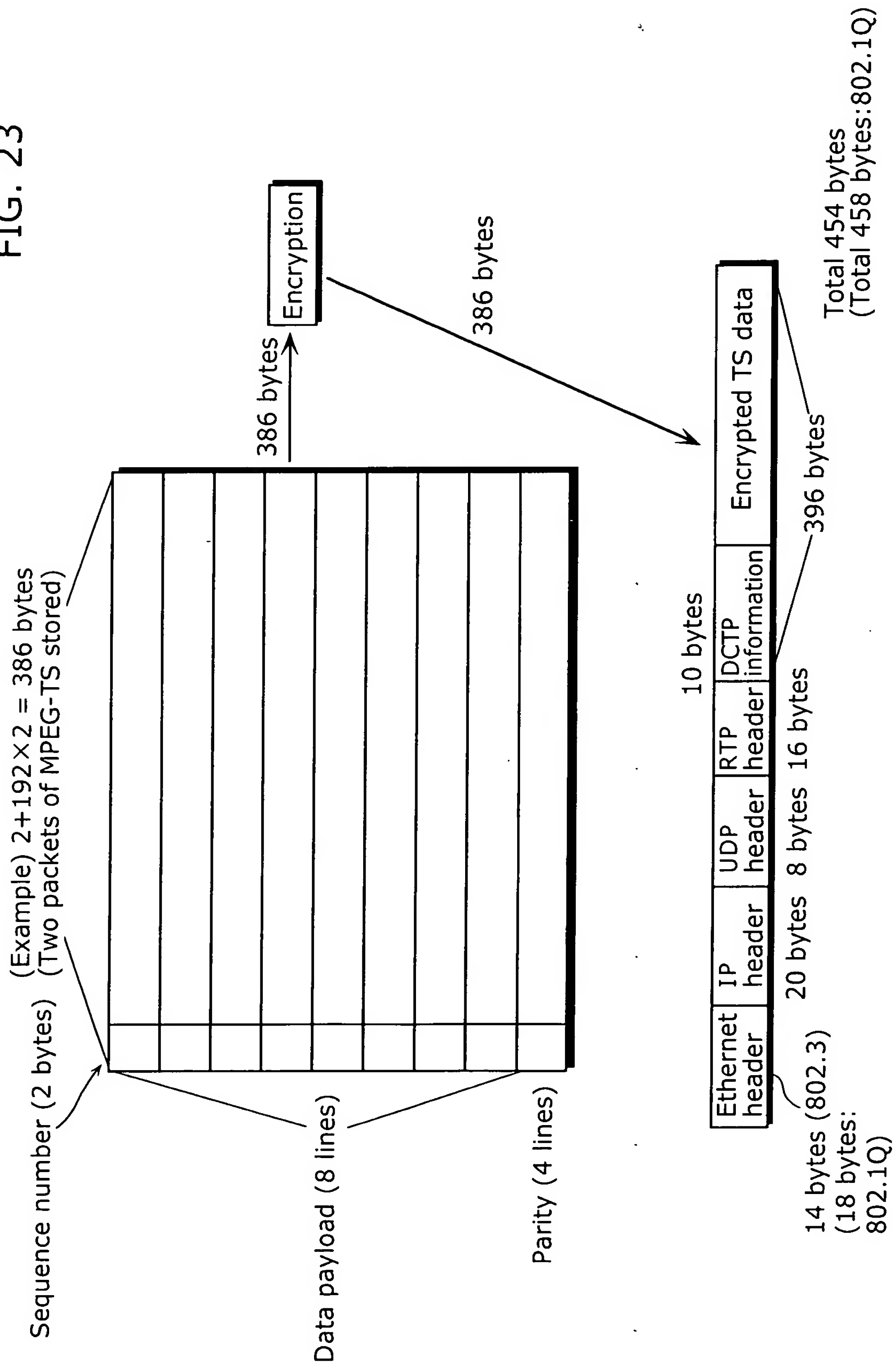


FIG. 23



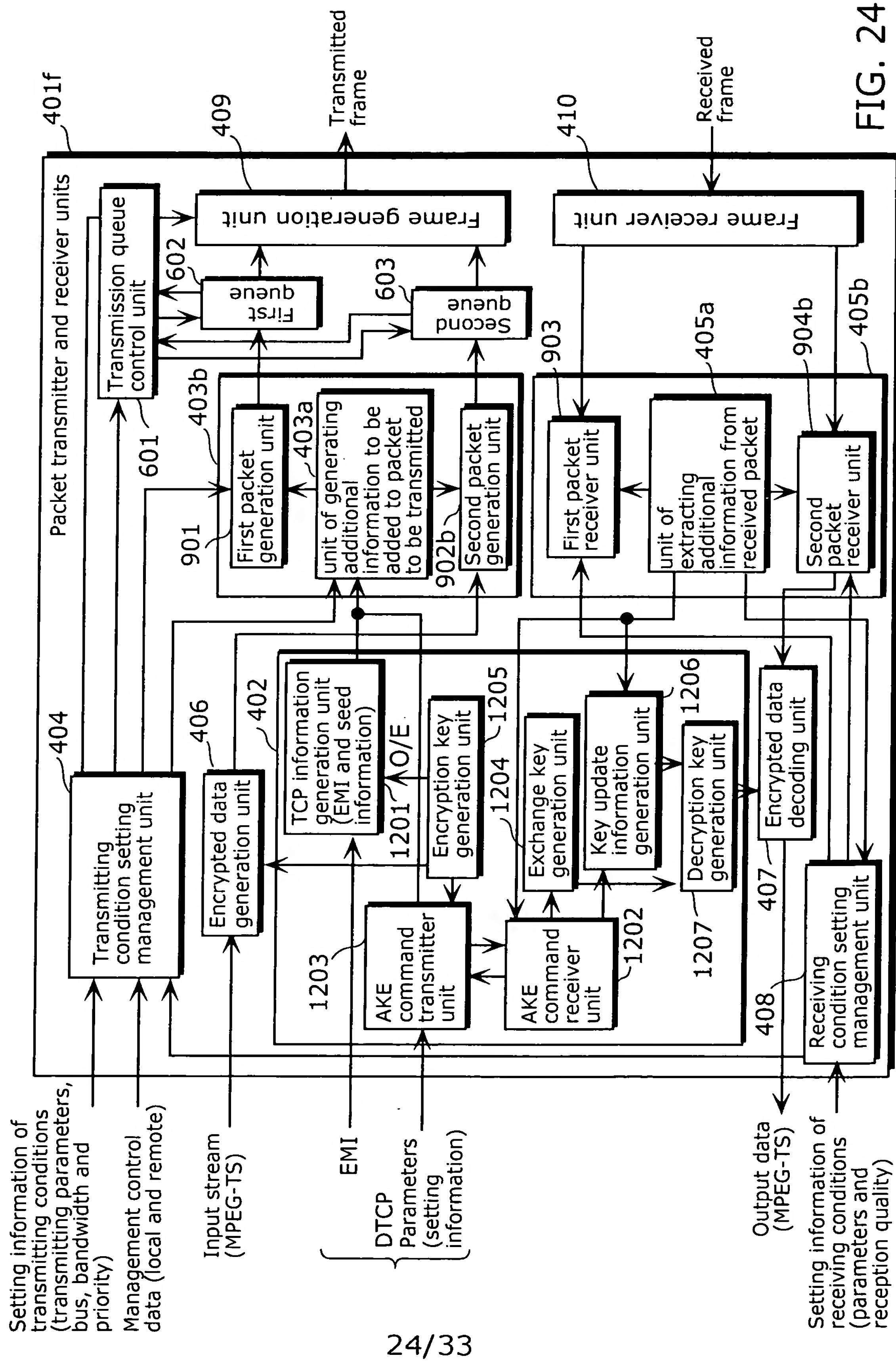
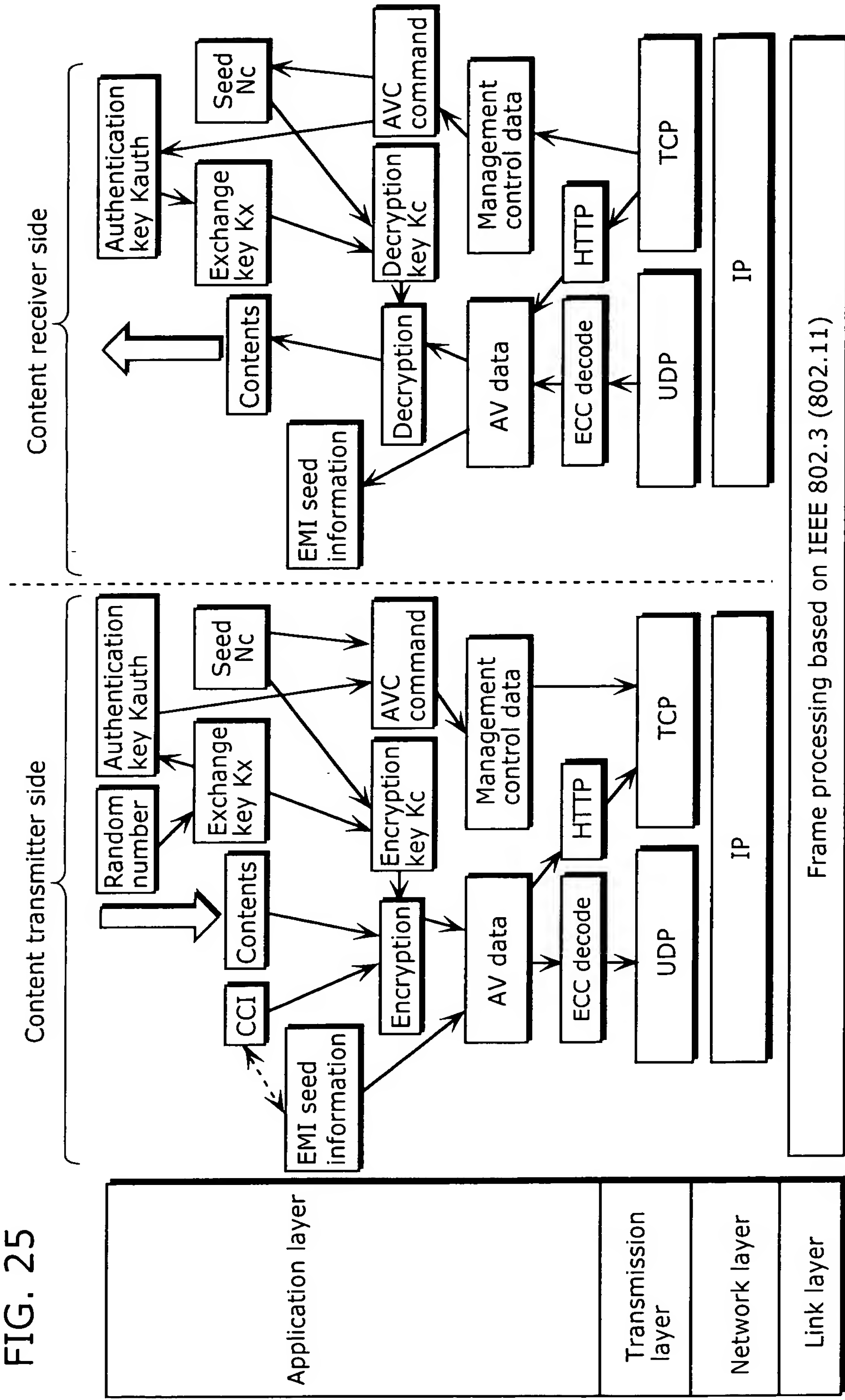


FIG. 25



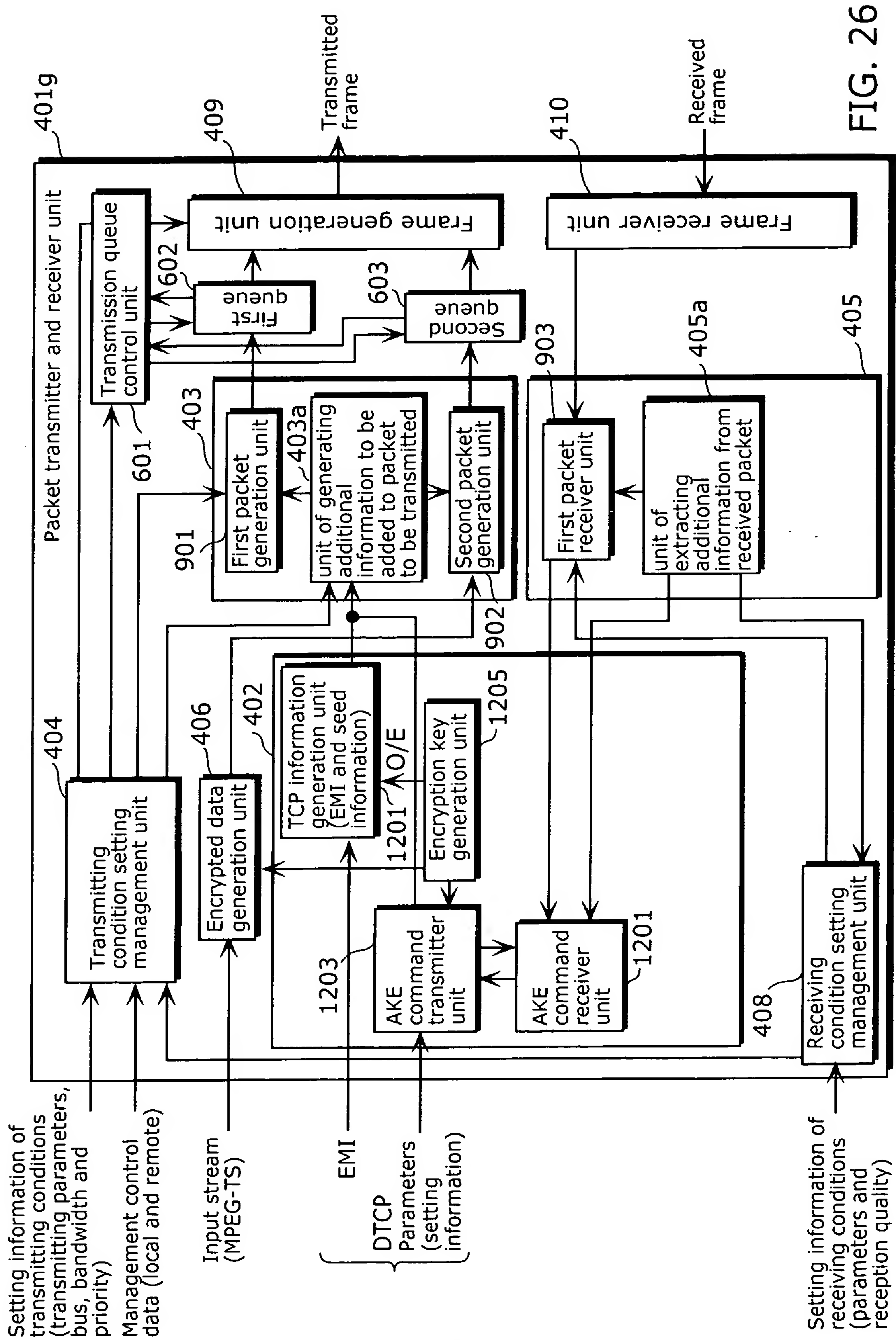


FIG. 26

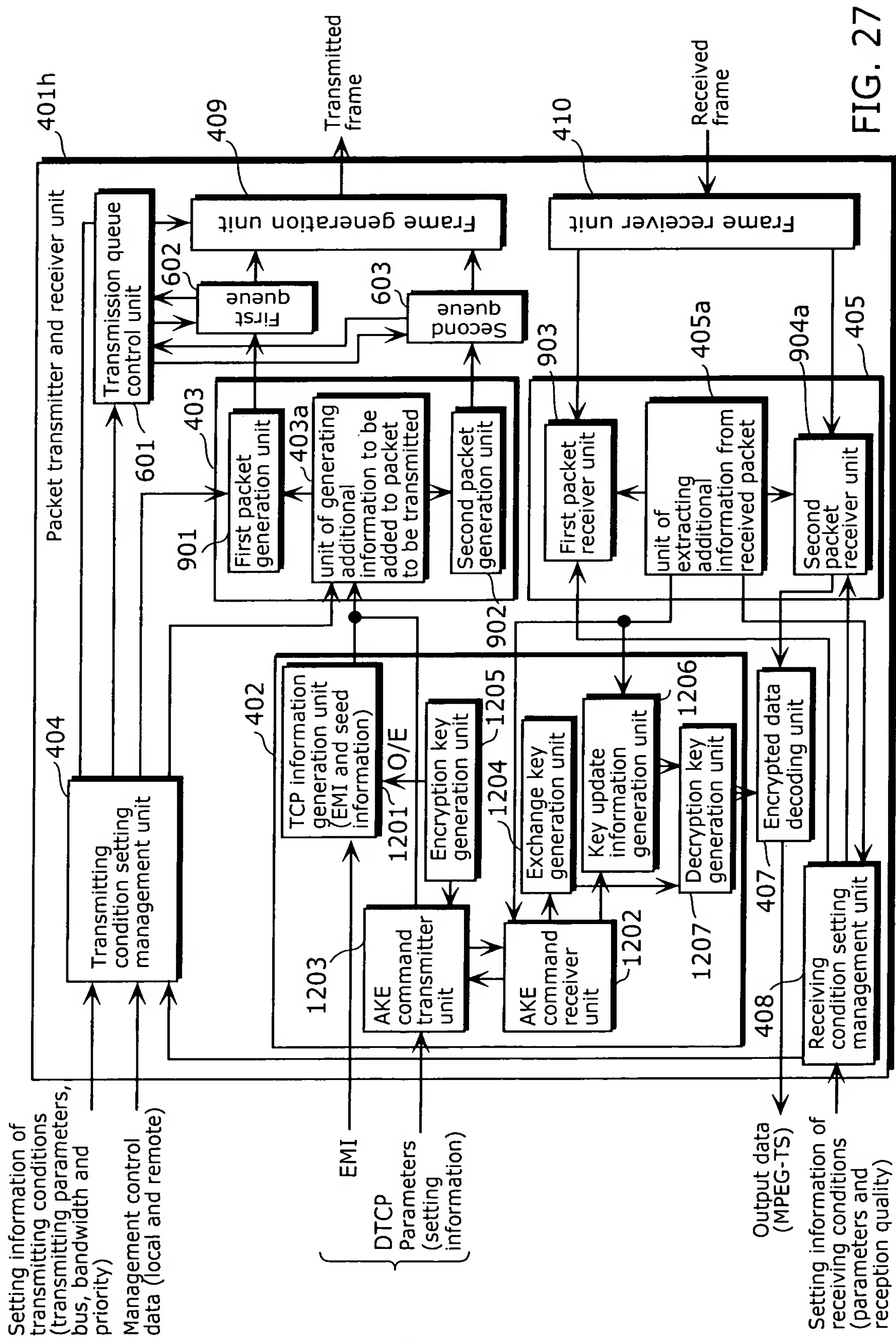


FIG. 27

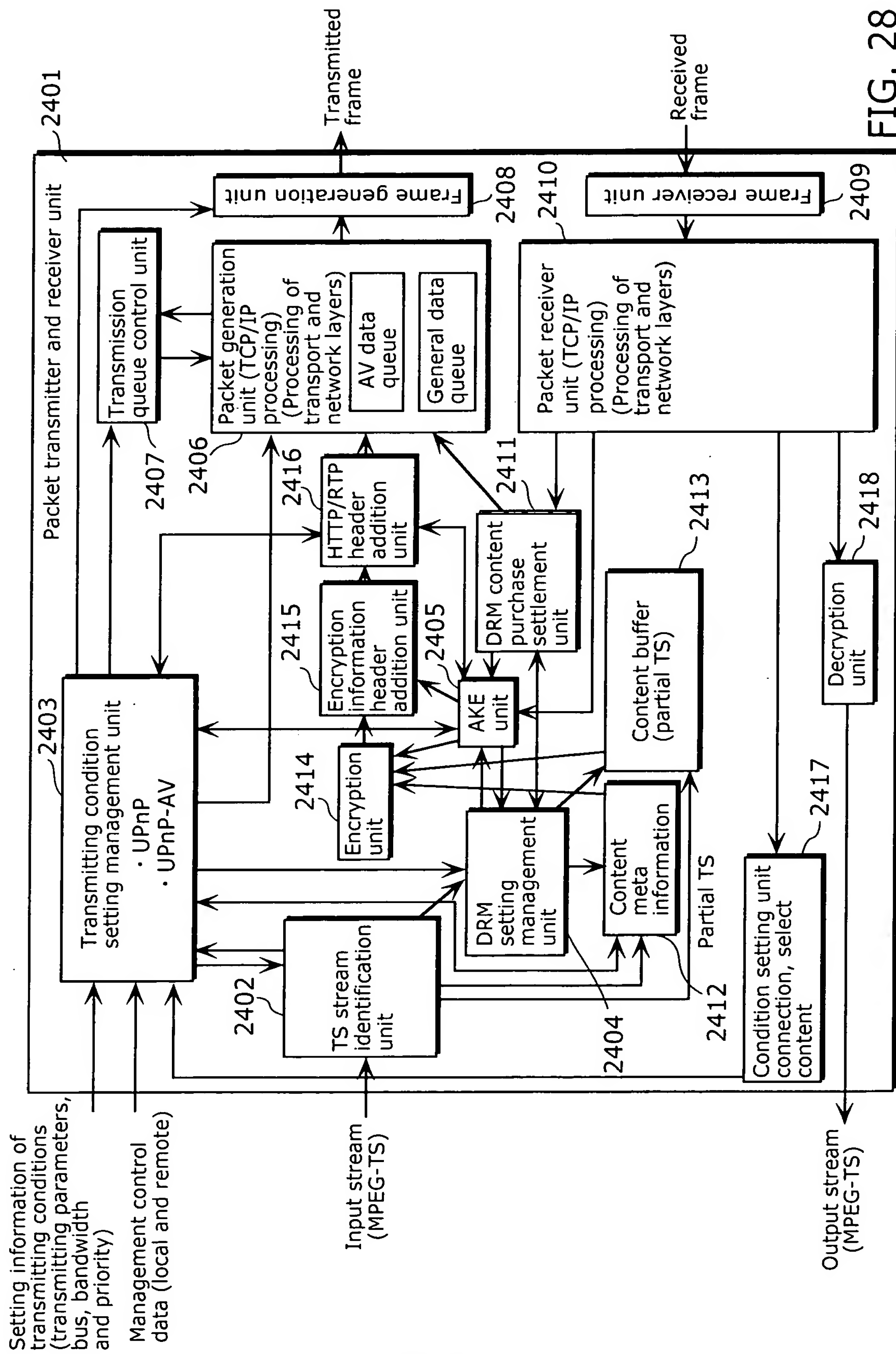


FIG. 28

FIG. 29

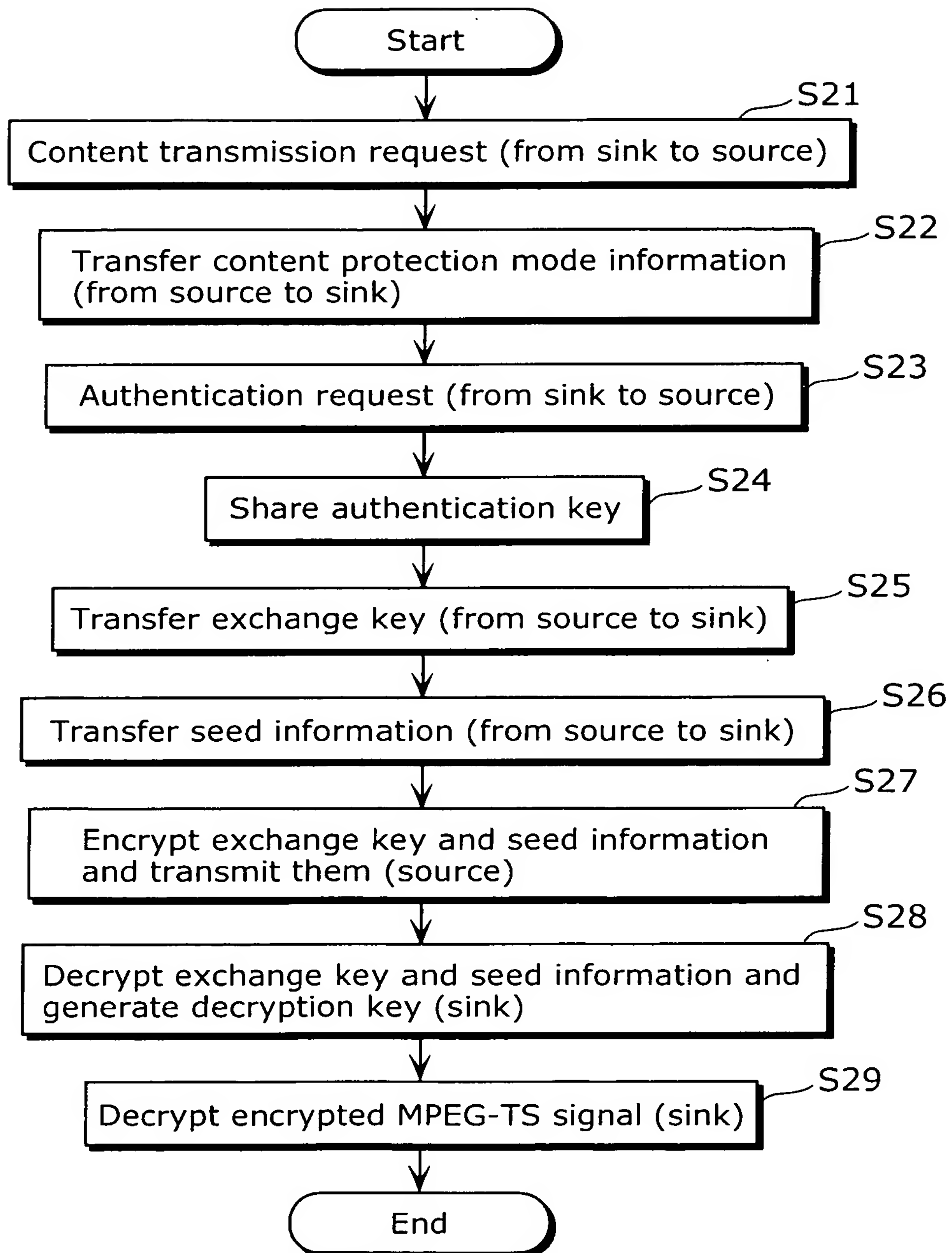
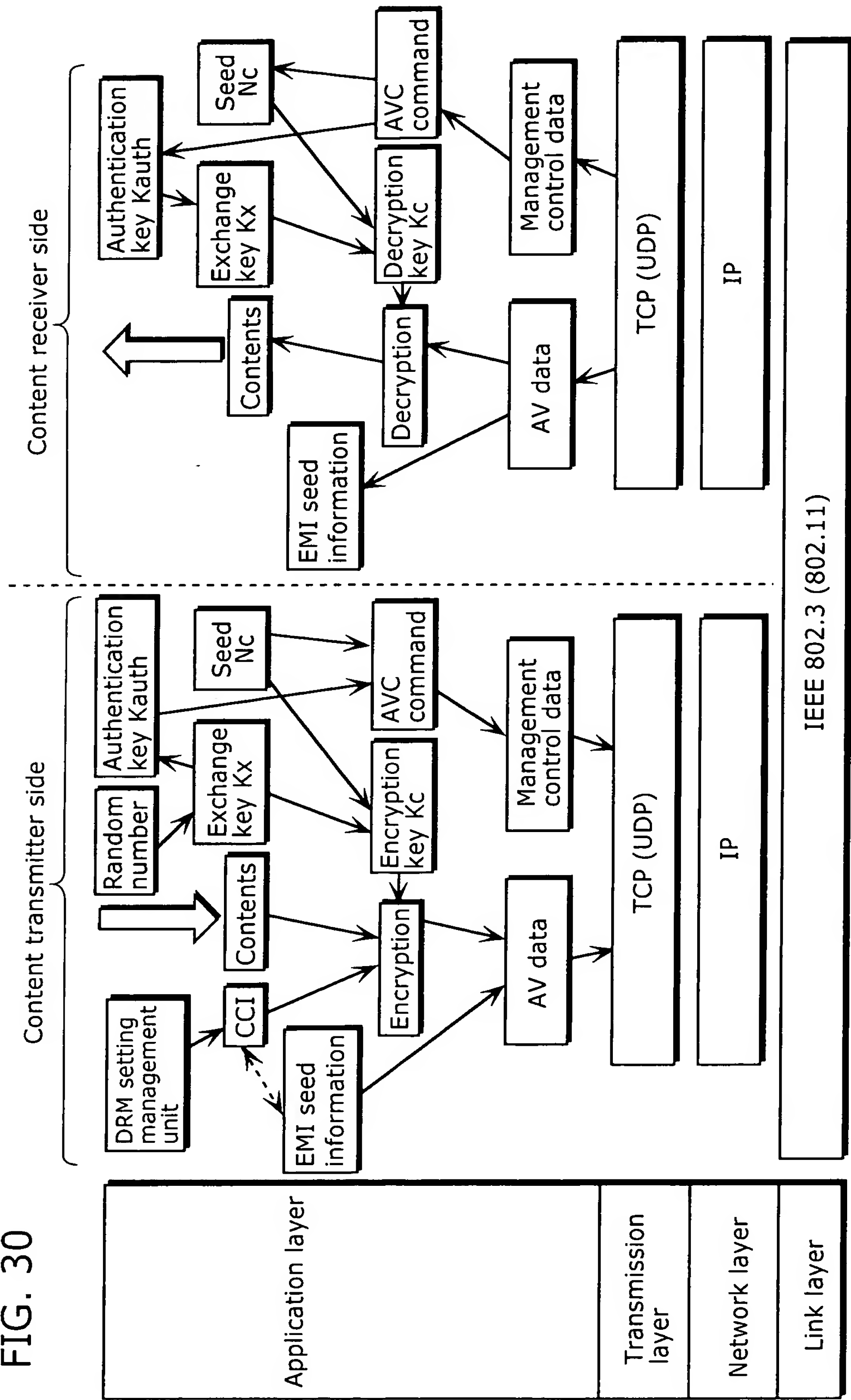


FIG. 30



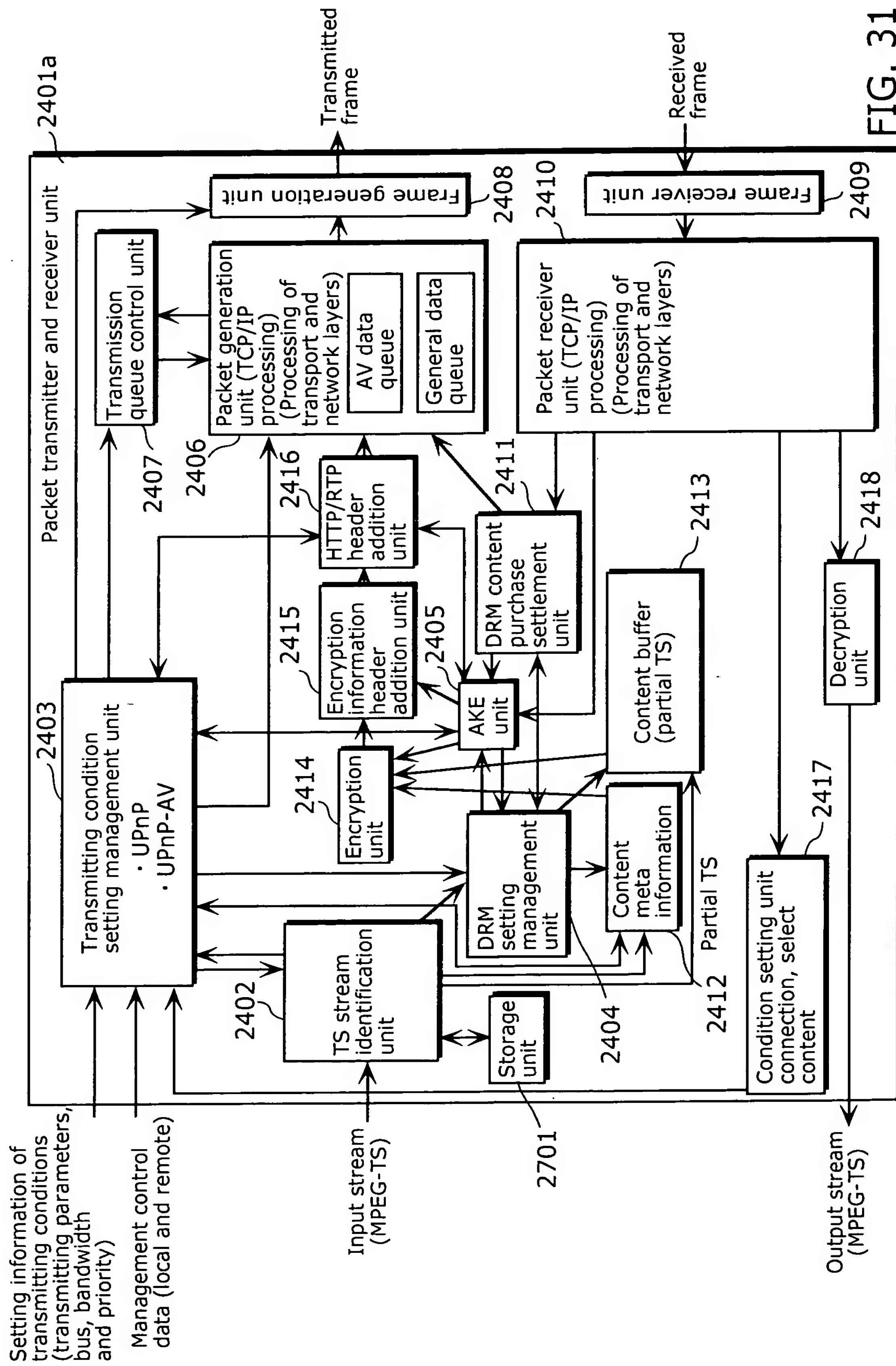


FIG. 31

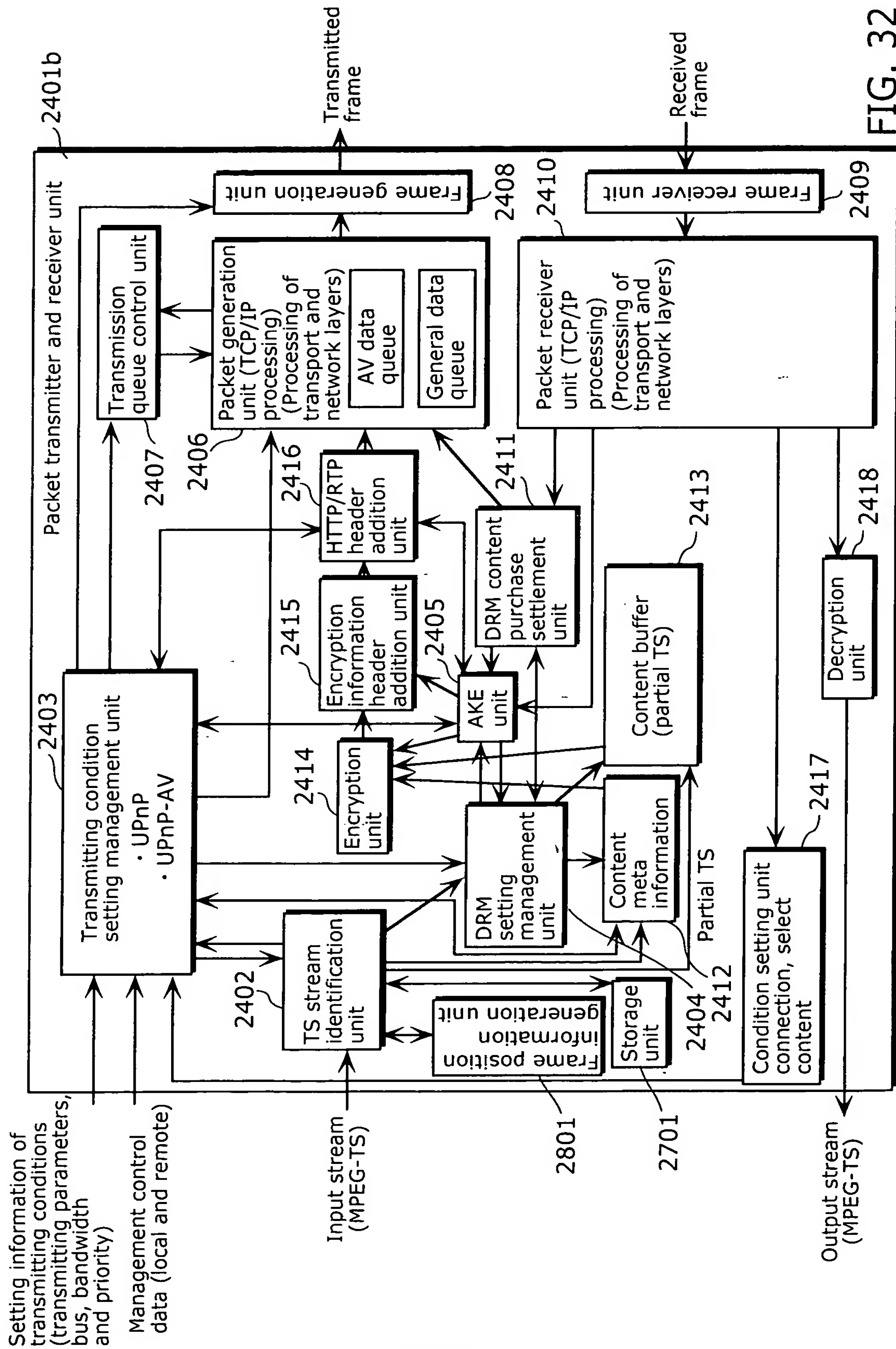
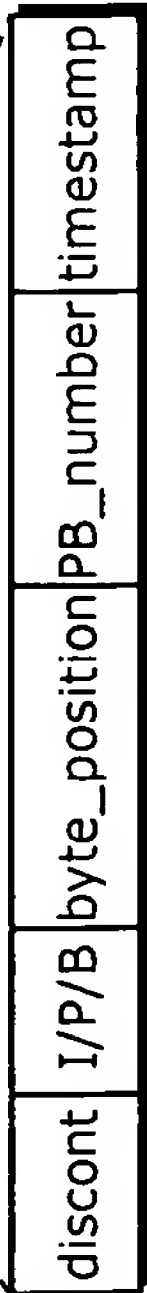


FIG. 32

FIG. 33

Configuration of picture information file (PIF:Picture Information File)



1bits 2bits 32bits 5bits 40bits
2bits

Read out continuity information, position information and time information of I, P and B pictures from HDD or BD disc storing partial TS, and write them on integrated "picture information file". Terminal in remote location can refer to each picture position by referring to this picture information file through network, even when file has different TS storage format. This enables to perform slow playback, fast playback etc. finely.

discont: Discontinuity flag of partial TS packet
1-bit representation "0" represents continuity,
and "1" represents discontinuity

IPB: Picture identification flag for I, P or B picture
"00" represents I picture, "01" represents P picture,
and "10" represents B picture
Description "00" representing I-picture position required
Descriptions "01" representing P-picture position and
"10" representing B-picture position not required

Byte_position: Byte positions of I picture, P picture and
B picture in starting file. 32-bit representation

PB_number: Total number of P pictures and B pictures
positioned between I picture and next I picture
5-bit representation

Timestamp: Time information of I picture, P picture and
B picture 40-bit representation